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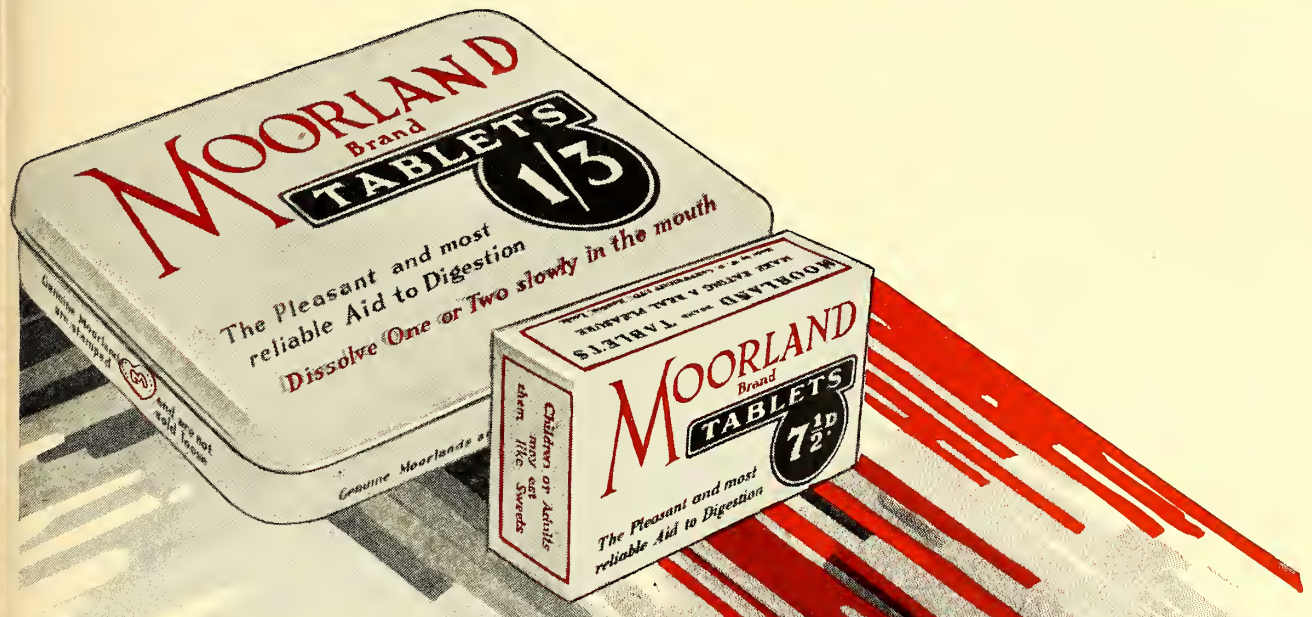


# CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859      28 Essex Street, Strand, London, W.C.2      Registered as a Newspaper

No. 3051      JULY 30, 1938      Annual Subscription (with  
VOL. CXXIX      Diary) 20/- Single Copies 9d.



## More and More Moorlands

**BIGGER  
DEMAND  
INCREASED  
ADVERTISING**

New remedies for indigestion are constantly being put on the market, yet, in spite of ever increasing competition and heavy competitive advertising, Moorland sales continue to grow day by day, year by year, due to public recommendation. Increased sales have led to increased advertising—National press—posters on hoardings and buses, enamelled signs. Keep Moorlands well displayed and get your share of this ever growing big profit big seller—for

*The Public will have*



W. B. CARTWRIGHT LTD., RAWDON, LEEDS

**MOORLAND**  
BRAND  
**INDIGESTION TABLETS**



# HOT WATER BOTTLES

*that will increase  
your sales!*

**Dunlop**

## ALL-RUBBER MOULDED BOTTLE

High pressure moulded from the toughest rubber, this inexpensive bottle can be sold with the utmost confidence that it will give typical 'Dunlop' satisfaction. 'Cellophane' wrapped. Fixed 2/11  
Retail Price - - 2/11  
With Handle - - 3/3

**Dunlop**

## COSIMAX BOTTLE

The modern luxury bottle that gives all-night warmth. Plush covered. Seamless interior made from Latex. Handsomely boxed. Fixed Retail Price. Cosimax Standard Size 10/6  
Cosimax Senior Size 14/11  
Cosimax Foot Warmer 10/6

## ANIMAL BOTTLES for CHILDREN

TEDDY, KITTY, DOGGY, BUNNY, or RED RIDING HOOD.

Real hot water bottles, intriguing to the children, safe and reliable, attractively packed in a box with 'Cellophane' window in lid.

Un-covered 3/11 Covered 5/9  
Red Riding Hood 4/6, including red head cover.

**Dunlop**

## HAND-MADE FABRIC INSERTION BOTTLE

Made on the same principle as the world's toughest motor tyres, high pressure moulded with fabric insertion, unrivalled for strength and long life, attractively boxed in Red and White.

Size	Red	White
6" x 10"	4/11	4/6
8" x 10"	5/6	4/11
8" x 12"	6/6	5/6
10" x 12"	7/6	6/6

# Dunlop

## HOT WATER BOTTLES

DUNLOP RUBBER COMPANY LIMITED (General Rubber Goods Division), CAMBRIDGE STREET, MANCHESTER, 1

TO BE NATIONALLY ADVERTISED



*"We're going to*  
**BOURNEMOUTH"**  
*says "Tilly"*



"DADDY'S taking mummy and me to the seaside next week, so I told mummy that I wanted my Curly Top while I was away. 'That'll mean a new tube' she says. But I don't mind—it's giving me curls."

★ ★ TO THE "HOLIDAY- ★ ★  
 TOWN" CHEMIST

In the next two months thousands of people will be visiting your town. Remind them of the need to continue with their Curly Top and Vosemar Treatment by displaying it on your counter and in your window.

★ TO CHEMISTS ★  
 "AT HOME"

The intense national advertising campaign in progress assures you of a demand from the hundreds of thousands who stay 'at home.' Reap the benefit of this advertising by displaying Curly Top and Vosemar.

★ **CURLY TOP** trains children's hair to curl naturally. Retails at 1/3 a tube.

★ **VOSEMAR** makes ladies' hair wave naturally. Retails at 1/6 a tube.

★ **CURLY TOP SOAPLESS SHAMPOO**—specially prepared for children, making the hair soft, lustrous and glossy. Enough for 12 shampoos. 1/3 a tube retail.

★ **VOSEMAR SOAPLESS SHAMPOO** — removes scurf and dandruff, lathers copiously. No rinsing lotions needed. 12 shampoos. 1/3 a tube retail.

**VOSEMAR LIMITED**  
**BURY • LANCASHIRE**



Here's a display ready for you. Ask your wholesaler about the new 1/-dozen pack.

**HOUR BY HOUR MORE PEOPLE  
ARE ASKING FOR—**

# Samona

MAKES LIFE ANEW

REGD

SAMONA is supplied in two forms: No. 1 for Men (orange tablets); No. 2 for Women (brown tablets). Retail price 3/- & 5/- (more than double quantity).

**P. A. T. A.  
T E R M S**

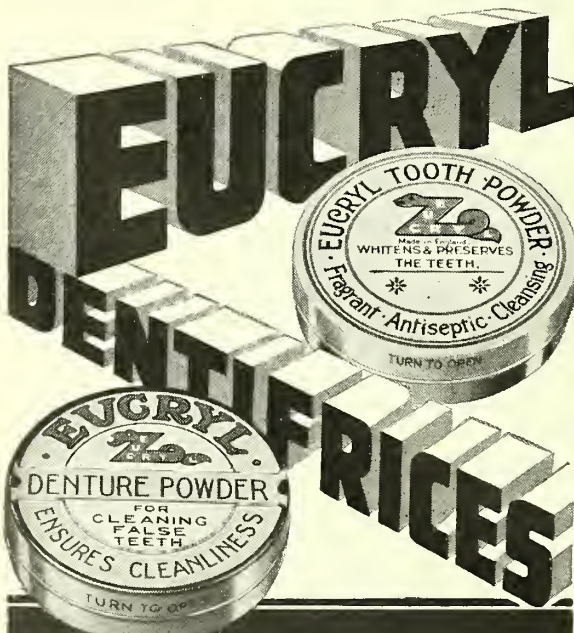
**From all  
Wholesale  
Houses**

The new medical product for Neurasthenia, Nerve Strain, Impaired Vitality, Depression, Inability to Concentrate, General Weakness, Change of Tissues, Hardening of the Arteries, Tired and Listless Appearance, Insomnia, Mental and Physical Exhaustion.

**BE READY TO MEET THIS DEMAND**

For Showcards, &c., apply to:

**SAMONA LTD., 16-18 Charterhouse Street, London, E.C.1**



**BOUGHT ON DISPLAY TERMS YIELD-**

PROFIT ON  
SELLING PRICE

**43%**

PROFIT ON  
BUYING PRICE

**75%**

**SHOWCARDS ON REQUEST**

**EUCRYL LTD. Manufacturing Chemists, SOUTHAMPTON**

## ROWLAND'S MACASSAR OIL



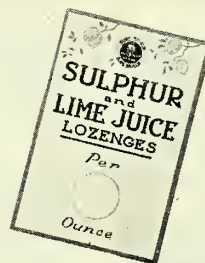
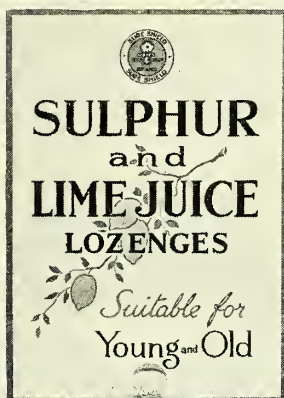
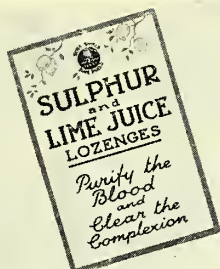
Regd. Trade Mark

FOR ALL SHADES  
OF HAIR  
IT PROMOTES THE  
GROWTH, GIVES  
LIFE AND LUSTRE  
AND LONG DE-  
LAYS BALDNESS.

**A. ROWLAND & SONS, Ltd.**

22 Laystall Street, Rosebery Avenue  
London, E.C.1





**CARTONS  
WINDOW DISPLAY  
and  
SHOW JAR**

**Thos. Guest & Co.  
Ltd.  
CARRUTHERS STREET  
ANCOATS  
MANCHESTER**



**SAMPLE AND PRICE ON REQUEST**

*Pharmaceutical*

# CASTOR PREMIER OIL

Tasteless  
Water-White

Made in England by

**THE PREMIER OIL  
EXTRACTING MILLS**

HULL

Ltd.

Telegrams: "Premier, Hull"

Telephone: 15191 (8 lines)



*For*  
**PARTICULAR  
PEOPLE**

For use with  
Sanitary  
Towels as a  
DEODORANT  
and to pre-  
vent chafing.  
It neutralises  
body odours  
at once.

**ORDER FROM YOUR WHOLESALE HOUSE**



# NEW USES for 'ASPRO' SEND UP THE SUMMER SALES



**CHEMISTS' ENVELOPES  
AND BAGS**  
Kristal Envelopes 2/6 per 1,000  
Grease proof 2 oz. bags  
1/- per 1,000  
Cash with order.



GIANT CARTON

WINDOW STICKER



## SHOW THIS SUMMER DISPLAY — and watch the Results!

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by  
**ASPRO LIMITED**  
SLOUGH, BUCKS.

Telephone: Slough 608

No proprietary right is claimed in the method of manufacture or the formula.



The public is always finding out new uses for 'ASPRO'. Each new use creates a new market. Newspaper advertising to the order of £14,000 A MONTH—nation-wide broadsheeting—an annual expenditure of £20,000 in 'bus posters, news posters, railway carriage advertisements announce these new uses to a wider audience. For instance, the use of 'ASPRO' as a gargle for sore throats received a tremendous impetus during the dry and dusty weather at the beginning of May. Thousands then learned for the first time of its wonderful value in this respect. It is this constant activity—constant search for new ways in which 'ASPRO' can exert its wonderful soothing aid which has definitely established 'ASPRO' as an all-seasons record-breaker.

Chemists know how good the demand is. But the chemist who gives 'ASPRO' a full and continuous display soon finds that he attracts the maximum sales created by 'ASPRO' advertising and gets many new customers from the great 'ASPRO'-buying public. Why not send for and

### AVAIL YOURSELF OF THE 'ASPRO' BONUS — AND SAVE MONEY!

**BONUS ON 5's & 10's ...** One gross order ... Bonus 1 dozen packets  
Half gross order ... Bonus 1/2 dozen packets  
Half gross of either size is the minimum order accepted for bonus purposes.

**BONUS ON 27's ...** One gross order ... Bonus 2 dozen packets  
Half gross order ... Bonus 1 dozen packets  
Quarter gross order... Bonus 1/2 dozen packets

Quarter gross is the minimum quantity. NO BONUS ON 60's.

**BONUS CONDITIONS.**—The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.



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*New* **ANZORA** **DISPLAY MATERIAL**

**Apply NOW!**

**ANZORA FULL-COLOUR DISPLAY STANDS**  
When writing, please state quantities required of 'A' and/or 'B'; their respective sizes are—'A': 13½" high, 11½" wide, 3¾" deep. 'B': 20" high, 17¼" wide, 5¼" deep.

**ANZORA LTD., AFRICA HOUSE, KINGSWAY, LONDON, W.C.2.**  
Sole Distributors: British & International Proprietaries Ltd., Africa House, Kingsway, London, W.C.2.

These forceful display stands are now available for all Anzora stockists. Benefit to the full from the new, powerful Anzora National Advertising Campaign by writing at once for supplies and also for details of the **Special Window Display Bonus** to the Advertising Department—



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# Carnation Corn Caps

Sales of this popular remedy are restricted to Qualified Chemists. Not only that, a generous margin of profit is shown—Nationally advertised too.

## CUXSON, GERRARD & CO. LTD.

Manufacturing Chemists

OLDBURY, BIRMINGHAM



# RENT

**your new factory**

**BUILT TO  
YOUR REQUIREMENTS**

*with coal-tar*

*and lime on the spot*

**CAPITAL ASSISTANCE**

WEST CUMBERLAND offers you the following exceptional advantages if you select it as a location for your new factory :

- Plentiful labour, skilled and unskilled, male, female and juvenile. ● In the centre of a coal producing area. ● Lime in abundance. ● Manganese and fluor spar deposits in the area. ● The softest water supply in the Kingdom—temporary hardness as low as .4°.
- Good transport facilities: strategically placed for the expanding northern market. ● Magnificent country—mild climate—sporting amenities.

**Add to these** the unique facilities now offered by the Government: Your factory planned and built to your requirements, and rent only (on a non-profit basis) charged. Substantial assistance with capital. Contributions towards Rent, Rates, Income Tax and N.D.C.

**THIS GOVERNMENT OFFER**, unprecedented in the history of Industry, makes West Cumberland the logical site for your new factory. The advantages of West Cumberland are matters of hard business fact, and can be translated by your calculations into balance sheet terms. Full data on which to base such calculations, and any other information required, may be obtained from The West Cumberland Industrial Development Co. Ltd., 1 Scotch Street, Whitehaven,

*West Cumberland*

**EMPIRE EXHIBITION.** Visit Stands Nos. 26 and 27 of The West Cumberland Industrial Development Company Ltd., and The Cumberland Development Council Ltd. in the Industries, Shipping and Travel Pavilion.

## Over a Million CATARRH SUFFERERS

will shortly be informed that

### McClure Brand EPHEDRINE

Nasal Catarrh Specific

gives relief in

**FIVE SECONDS**

This complaint, together with its near relative

### HAY FEVER

is decidedly on the increase.

Don't be like the old lady who thought Catarrh was a kind of Spanish Banjo.

Make sure that you have the right remedy to offer.

McClure Brand Ephedrine with drop stopper—

**1/6**

**McCLURE, YOUNG & Co. Ltd.**

**MANUFACTURING CHEMISTS**

**PREMIER PACKED DRUG HOUSE**

**90 STANDARD RD., PARK ROYAL, LONDON, N.W.10**





# VISKAPS

are the original  
British-made

## Viscose Capsules

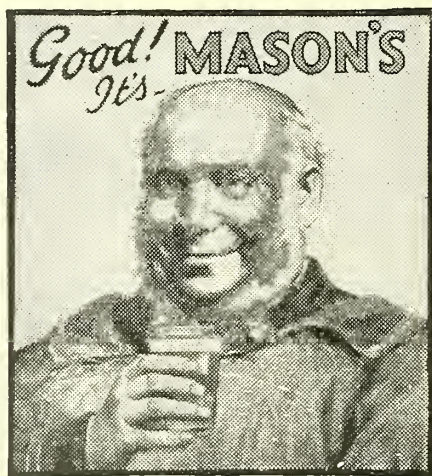
ensure security and hygiene and give an attractive finish to every bottle. Can be printed and dyed and supplied wet or dry in transparent or opaque finish. Used under a screw cap they prevent leakage. "Viskrings" provide an alternative to the full cap when it is desired to leave the top of the container uncovered. We will gladly fit any bottle or container free of charge and return for your inspection.

**VISCOSE DEVELOPMENT CO. LTD.**

**BROMLEY, KENT**

Telephone : RAVENSBORNE 2641

## MASON'S EXTRACT OF HERBS WINDOW SHOW TERMS ARE NOW AVAILABLE



Apply for Illustrated Particulars to  
**NEWBALL & MASON LTD. - NOTTINGHAM**

## Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE

### DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/- ..	15/- per doz.
3 tubes, 5/-	
Virus for Mice only .. single tube, 1/6 ..	9/- "
3 tubes, 3/-	
Date-expired tubes returned to us postage paid will be exchanged free of charge.	

### Danysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each .. .. .	4/6 each
" 4/6 " .. .. .	3/9 "

### HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices		25% Monthly Account, or 33 1/3% Cash	
Retail		with Order.	
		Monthly A/c	Cash with Order
1/2 gall. tins ..	10/- ..	7/6 ..	6/8
1 " " ..	18/- ..	13/6 ..	12/-
5 " " ..	80/- ..	60/- ..	53/4

### DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.	
Retail Prices (Protected)	Wholesale Prices
In cartons 9d. each .. .. .	6/9 per doz.
" 1/6 " .. .. .	13/6 " "
" 3/- " .. .. .	27/- " "

Danzo Beetle Powder will not deteriorate by keeping.

**CARRIAGE PAID ON ALL ORDERS.**

To be obtained from

**HALLER LABORATORIES, LTD.**

325 Borough High Street, LONDON, S.E.1

Telegrams : "Virudana, Sedist, London."

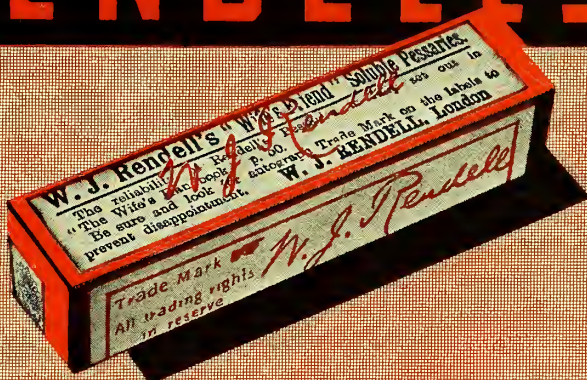
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# W I S D O M



# RENDELLS



The wisdom of permanently displaying Rendells is an accepted fact. It gives confidence to the regular purchaser and encourages new customers.

Special chemist's advertising material is now available which gives an added and dignified attraction to the surgical window.

**W. J. RENDELL LTD.**  
161-165 ROSEBERY AVENUE, LONDON, E.C.1



BEAUTIFUL

*Glassware*

We create and manufacture high quality  
glassware for cosmetics and perfumery

WOOD BROS. GLASS CO. LTD.

ESTABLISHED 1828

BARNSELY

ENGLAND



# FAMOUS MERITOR TOOTHBRUSHES

## NOW BEING REGULARLY ADVERTISED IN THE N-A-T-I-O-N-A-L PRESS



- OVER 20 MILLION ADVTS. IN INITIAL CAMPAIGN
- ARE YOUR MERITOR TB. SALES UNITS IN A GOOD POSITION TO LINK UP WITH ADVERTISING?
- ORDER MERITOR TBS. FOR RECORD PROFIT

★★★ **Increased advertising too in Ladies' Magazines for VELFIN PADS**

MAW OF LONDON ANNOUNCEMENT

**Dr. J. Collis Browne's Chlorodyne**  
and  
**The Pharmacy and Poisons Act, 1933**

**Dr. J. Collis Browne's**  
**CHLORODYNE**

**SALE RESTRICTED TO REGISTERED CHEMISTS**

**PURCHASER'S SIGNATURE NOT REQUIRED**

*Sole Proprietors :*  
**J. T. DAVENPORT LTD.**



**Union St.,**  
**London, S.E.1**

**JACKSON'S**  
**BONUS OFFER**

**AUG. 1—SEPT. 10**

Don't miss the  
date and make  
your order a  
paying one

**13 to the dozen on**  
**all orders of 1/3d.,**  
**3/- and 5/- size**  
**JACKSON'S**  
**FEBRIFUGE**

**ORDER NOW THROUGH YOUR**  
**WHOLESALE. THIS IS THE ONLY**  
**BONUS OFFER FOR THE SEASON**

**G. JACKSON & SONS LTD., HARPURHEY, MANCHESTER**

ESTABLISHED 1793

**ATKINSON & BARKER'S**  
**INFANTS' PRESERVATIVE**

The Best and Safest Infants' Medicine of  
140 years' standing.

Does not contain any Scheduled Poison.

**ROBERT BARKER & SON, LTD.**  
13 WESLEY ST., C. on M., MANCHESTER

**RECORD**



**FIVEPOINT**  
REGISTERED  
**HYPODERMIC**

**SYRINGES**

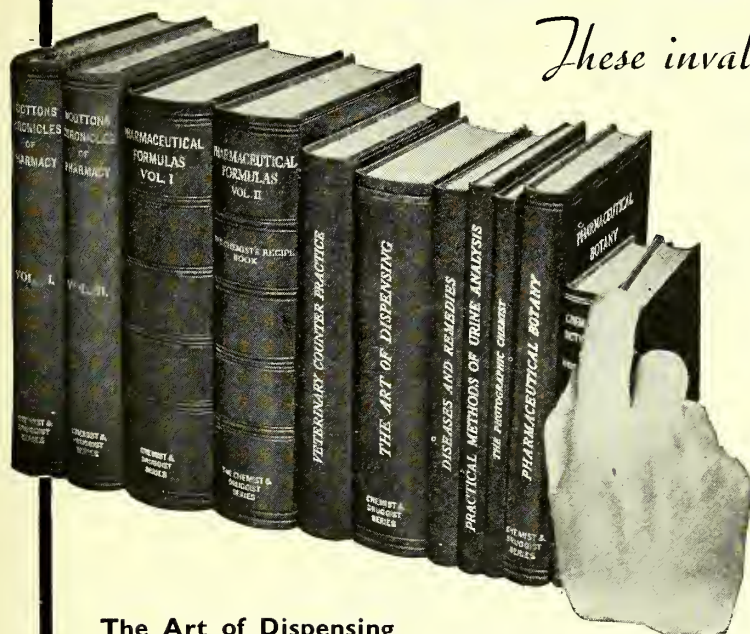
**"FIVEPOINT" RECORD SYRINGES**

With PYREX GLASS BARRELS  
With ANNEALED GLASS BARRELS  
SURGICAL SYRINGES OF ALL TYPES

For particulars apply to the Manufacturers—

**GENERAL SURGICAL CO. LTD.**  
**GENSURCO HOUSE**  
**ROSEBURY AVENUE, LONDON, E.C.1**





*These invaluable books should  
be ready to your hand.*

## **“THE CHEMISTS’ COMPACT LIBRARY”**

*These books provide a ready source of up-to-date and accurate information on their particular subjects . . . No pharmacists' library is complete without them.*



### **The Art of Dispensing**

Accepted by authorities as the standard work on the subject. New edition (1937) completely revised, re-written and thoroughly up-to-date.

Price 10s. 6d. (11s. Post free)

### **Veterinary Counter Practice**

New and thoroughly revised edition just published. The most useful book ever published on this subject.

Price 10s. (10s. 6d. Post free)

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Newly revised and brought up to date (1936). Contains information of practical value and a host of reliable formulas.

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A useful gift for apprentices and assistants who have not passed the qualifying examinations.

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The most complete pharmaceutical formulary in the English Language. 1,146 pages.

Price 15s. (15s. 6d. Post free)

### **Pharmaceutical Formulas (Vol. II)**

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Gives formulas for medical prescriptions used in 22 Hospitals outside the London area. 296 pages.

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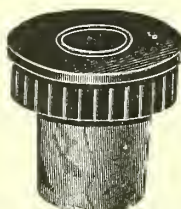
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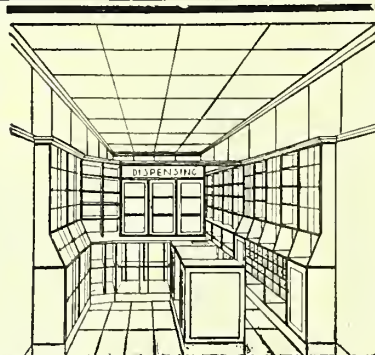
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*London Prices to the Trade (subject)*



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## News of the Week

### Business Changes

ASCOTTS PHARMACIES (1933), LTD., are opening a new branch at 12 Cranley Parade, Kimmeridge Road, Nottingham, London, S.E.9.

MR. FRANK BROOKS, M.P.S., has taken over the business of the late Mr. F. N. Whitehead, Ph.C., The Old Pharmacy, 2 Queen Street, Morecambe.

MR. W. M. LAXTON, M.P.S., has acquired the 93 Bruce Grove, Tottenham, London, N.17, business of Mr. Harry Waterhouse, M.P.S. Mr. Waterhouse retains his interest in businesses at 50 Napier Road, N.17, and 23 Silver Street, N.18.

### Proprietary Articles Trade Association

ADDITIONS TO PROTECTED LIST.—Parke, Davis & Co., Gluco-Fedrin, new 1-oz. size, 3s., 24s. doz. (These prices also apply in Ireland [Eire].)

ALTERATIONS.—Parke, Davis & Co., the following prices for Ireland (Eire) will operate to chemists as from August 1, and to the public on September 15:—Abidon capsules, 25's, 4s., 33s. 6d. doz.; Anesthone compound tablets (C.T. 725), 25's, 2s. 3d., 18s. doz.; C.L.O. creosoted emulsion, 8 fl. oz., 2s. 6d., 20s. 8d. doz.; 16 fl. oz., 4s. 6d., 36s. 9d. doz.; Crypto-Vibex tablets, 0.5 mgm. (C.T. 758), 25's, 2s. 6d., 20s. 3d. doz.; Dermaseptic shaving soap, 1s. 9d., 14s. doz.; Gluco-Fedrin, 10 c.c. vials with dropper, 1s. 9d., 14s. doz.; Haliverol, 5 c.c., 3s., 25s. 2d. doz.; 15 c.c., 7s. 6d., 63s. doz.; 50 c.c., 24s., 201s. doz.; capsules (3-minim.), 25's, 4s., 33s. 6d. doz.; 100's, 13s. 6d., 113s. 1d. doz.; hydrogen peroxide, 4 fl. oz., 1s., 8s. doz.; 8 fl. oz., 1s. 9d., 14s. doz.; 16 fl. oz., 3s., 24s. doz.; Mycozol ointment, tube, Mycozol liquid, 50 c.c., Mycozol dusting powder, tins, all 2s. 11d., 23s. 3d. doz.; Nadola, 10 c.c., 2s. 8d., 22s. 2d. doz.; 50 c.c., 11s. 2d., 91s. 2d. doz.; capsules, 25's, 2s. 6d., 21s. doz.; 100's, 8s., 67s. 6d. doz.; Naferon capsules, 7½-gr., 100's, 6s. 6d., 54s. doz.; shaving cream, 1s. 6d., 12s. doz.; Takazyma, 2s. 9d., 22s. doz.; Tar Dermament, 15 c.c., 2s., 16s. doz.; 50 c.c., 5s., 40s. doz. Proprietary Agencies, Ltd., prices in Ireland (Eire), Phillips' magnesia texture cream and cleansing cream, 2s. 6d., 21s. 6d. doz.; and 4s. 9d., 42s. doz. (subject to usual quantity discounts). R. J. Reuter Co., Ltd., Tosca eau de Cologne, 1206, 2s. 9d., 23s. 2d. doz.; 1205, 5s., 42s. doz.; 1204, 8s. 9d., 73s. 6d. doz. (these three sizes will supersede 143, 146 and 145 when stocks of the latter are exhausted); 4711 Famous Rhine lavender water, 2937/L, 1s. 9d., 14s. 8d. doz.; 2936/L, 3s. 6d., 29s. 6d. doz.; 2935/L, 6s., 50s. 6d. doz. (these sizes will replace 1057/L, 1056/L and 1055/L, retailing at 1s. 6d., 3s. and 5s. 6d. respectively when present stocks are exhausted); 4711 Rhinegold eau de Cologne, 1607, 1s. 6d., 12s. 8d. doz.; 1617, 2s. 6d., 21s. doz.; 1606, 3s. 3d., 27s. 6d. doz.; 1605, 5s. 9d., 48s. 6d. doz.; 2605, 6s., 50s. 6d. doz.; 2606, 3s. 6d., 29s. 6d. doz. (167, 169, 168, 168/1 and 169/1 are being discontinued); 4711 Famous Rhine lavender bath crystals, 7014/L, 4s., 36s.

doz.; 7015/L, 2s. 3d., 20s. 3d. doz.; Troika perfume, 3184, 2s. 6d., 21s. 6d. doz.; prices of the following will operate on and after September 1:—4711 eau de Cologne bath tablets, 898/EDC, 1s., 9s. doz.; lavender bath tablets, 898/LAV, 1s., 9s. doz.

DELETION.—Joseph Lingford & Son, Ltd., Lingford's liver salt, 3d. (withdrawn).

### Pharmaceutical Society of Great Britain

The results of the Pharmaceutical Chemist Qualifying examination held in London this month were:—Passed, 23; failed, 14; absent, 1; referred, 7; total, 45.

The following candidates satisfied the examiners:—

Abbott, Eileen M.  
Ashton, Clyde  
Aylett, K. C.  
Cannell, J. S.  
Coates, Marie E.  
Daglish, Cyril  
Embleton, Joan  
Fagg, E. H.  
Handy, K. H.  
Harrison, F. N.  
Hopwood, J. S.  
Hume, Leonard

Kitteringham, G. R.  
Matthews, E. R.  
Michaels, Isaac  
Pierce, Robert  
Sartin, W. R.  
Shaw, W. H.  
Sinclair, Thelma D.  
Sterling, Alan  
Taylor, E. J.  
Till, L. T.  
Walker, Helen E.

### "Made in Canada" Rulings

The Department of National Revenue (Customs Division), Canada, have issued the following notice, dated July 5, 1938:—

In connexion with the administration of Tariff Items 216 and 208t, the following are added to the lists as published in Memoranda Series D., No. 51, MCR 15 and Supplements thereto:—

Acid Lauric.  
Ammonium Citrate.  
Arsphenamine (powder).  
Cobalt Acetate.  
Cobalt Chloride.

Cobalt Nitrate.  
Cobalt Sulphate.  
Neosarsphenamine (powder).  
Sulpharsphenamine (powder).  
Zinc Laurate.

In accordance with the Government's undertaking to give "adequate notice" to parties concerned, this Memorandum is to be effective three weeks from the date hereof.

The effect of this notice is that British chemicals of the above descriptions, which have hitherto been free imports into Canada, will be dutiable to the extent of 15 per cent., plus 8 per cent. sales tax, as from July 26, 1938. Similar products of foreign origin, imported into Canada, will be liable to higher rates of duty, which vary according to the country of origin.

**CONTENTS**  
See p. 105



## Lichfield

**STAFFORD BRANCH MEETING.**—At a meeting of the Stafford and District Branch, held on July 12, Mr. John Eymmer in the chair, the Council's memorandum on Air Raid Precautions was discussed, and two members were appointed to ascertain of what practical use pharmacists could be to the County Authority. Mr. W. V. Hodgins (Clerk to the Staffordshire Insurance Committee) gave an address on the "Financial Aspects of National Health Insurance." A vote of thanks was passed to the speaker.

## London

**A.R.P. ORGANISATION.**—A meeting of the Tottenham Branch of the North London Pharmaceutical Association was held at Tottenham on July 19, to consider what action should be taken in respect of Air Raid Precautions. Mr. G. Weiss was in the chair. Mr. J. B. Smith (local chief sanitation officer and casualty officer) addressed the meeting. Members agreed to commence training in September, when a modified St. John Ambulance Brigade course would be ready, together with a course in anti-gas defence. The Medical Officer asked for pharmacists' assistance at five casualty clearing stations and at four first-aid posts, to complete the *personnel*. Chemists were also asked to allow their shops to be used as information bureaux. A committee of four members is to be formed from each section, to act with Mr. R. B. Cadge (local secretary).

**GOLF.**—The London Chemists' Golfing Society held a meeting at Sundridge Park Golf Club on July 21, when competitions were held for the Morny prize (medal play) and for the Leicher cup (bogey). The leading scores were:—

Morny prize		Leicher cup	
B. F. Tisdall ..	90-18=72	H. T. Harrison..	(6), three up
H. T. Harrison ..	79-6=73	B. F. Tisdall ..	(18), all square
A. E. Willmer ..	87-12=75	A. W. Daniel ..	(7), one down
E. A. Geddes ..	88-11=77	A. E. Willmer ..	(12), two down
H. W. Warburton ..	86-9=77	H. Warburton ..	(9), two down

The next meeting takes place at Oxhey on September 8.

**SOUTH-WEST BRANCH SPORTS MEETING.**—The annual competition for the South-Western challenge cups was held at Maclean's Sports Ground, Brentford, on July 13. The individual winners were:—

	Ladies	Gentlemen
Bowls ..	Mrs. Inglis	E. N. Browne
Tennis ..	Mrs. Wells	F. G. Wells
Putting ..	Mrs. Inglis	J. Inglis
Golf ..	—	W. H. Usher
Croquet ..	Mrs. Rees	—
Shooting ..	—	J. Inglis
Quits ..	—	E. N. Browne

Mrs. Inglis won the ladies' cup, Mrs. Rees being runner-up, and in the men's section Mr. J. Inglis won the cup for the fourth successive year, Mr. E. N. Browne being runner-up.

## Plymouth

**CO-OPERATIVE SOCIETY'S TURNOVER.**—An increase in pharmacy department sales of £1,353 (14.4 per cent.) for the quarter ended June 4 is recorded in the interim report of the Plymouth Co-operative Society, Ltd., as compared with the corresponding period of 1937.

**SPECIAL DISPLAYS FOR B.M.A. VISIT.**—Displays made by Plymouth chemists during the visit of the British Medical Association for its annual meetings recently included one by Balkwill & Co., 106 Old Town Street, who devoted one large window to a display of products of *Borroughs Wellcome & Co.*, and *Parke, Davis & Co.*, and another to products of *Glaxo Laboratories, Ltd.* *Boots, Ltd.*, at their Old Town Street branch, showed examples of the company's medicinal preparations, and photographs of its laboratories, and, in another window, ancient and modern implements used in dispensing. *Condy U'Ren & Son* exhibited products of *Glaxo Laboratories, Ltd.*, at their Cobourg Street shop.

## Rochdale

**DINNER AND PRESENTATIONS.**—Mr. Harold Thomas (principal), entertained the staff of J. J. Thomas & Son, chemists, Yorkshire Street, to dinner recently. Presentations were made to two members of the staff on the occasion of their forthcoming marriage. The visitors were toasted by Mr. G. H. Edgar and Mr. E. Leigh replied.

## Mansfield

**OUTING.**—The annual outing of the Mansfield and District Branch of the Pharmaceutical Society took place on July 20, when twenty-seven members and friends left Mansfield by omnibus at 2 p.m. for Monsal Dale, a Derbyshire beauty spot, via Chesterfield, Baslow, Hassop and Great Longstone. After an hour spent in walking through the Dale the party went on to Bakewell, where tea was taken. From there a drive through Chatsworth Park brought the party to Matlock, where a stay of an hour and a half was made to enable those who wished to visit the river gardens. The return journey was through Alfreton. Among those present were the chairman (Mr. J. Spaanderman) and Mrs. Spaanderman, Mr. and Mrs. A. R. Jesson, Mr. and Mrs. W. O. Pegg and Mr. L. Orange (principal, Technical College, Mansfield).

## Miscellaneous

**VISIT TO WORKS.**—In the course of an outing to Loughborough recently, Burton Natural History and Archaeological Society visited the factory of Zenobia, Ltd., where they were met by Mr. W. F. Charles (governing director).

**ROYAL WARRANT.**—In the list of tradesmen holding warrants of appointment to the Queen, published in the *London Gazette*, July 12, 1938, appears the name of D. R. Harris & Co., chemists, London. Messrs. Harris are in business at 30 King Street, Whitehall.

**ACCIDENT.**—Mr. Parkin S. Booth (accountant, Association of Manufacturing Chemists, Ltd., London) was one of six occupants of a motor launch who were thrown into Lake Windermere when the boat struck a submerged rock and sunk on July 16. All were rescued.

**TRADING ESTATE.**—At the third annual meeting of North Eastern Trading Estates, Ltd., recently, the chairman announced that the hundredth tenant had been secured for the factories offered by the company, which was established by the Commissioner for Special Areas in 1936.

**REPORT ON USE OF CELLULOID.**—The report of the Departmental Committee on the use of celluloid in the manufacture of toys, fancy goods, etc., has been issued and is obtainable from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 9d.

## Welsh Notes

## Bangor

**PRESENTATION.**—Mr. T. H. Williams, M.P.S., manager of the Bangor branch of Boots, Ltd., who retired last week-end after holding the position for thirty-three years, was presented by the company with an inscribed gold watch. Mr. Williams is succeeded by Mr. W. J. Ellis, M.P.S.

## Cardiff

**OUTING.**—The annual outing of the Cardiff Branch of the Pharmaceutical Society took place on July 20, when over forty members visited the Brecon Beacons, Brecon, and Talybont-on-Usk, where tea was taken. After tea croquet and other games were played. The return journey was through magnificent scenery at Crockhowell and Abergavenny. A small sum was handed to the Benevolent Fund as a result of a collection, making the Cardiff Branch collection this year up to over £60. It is intended to continue collecting.

**CLOSING HOURS SCHEME.**—The local committee of the National Pharmaceutical Union, in collaboration with the Town Clerk, have formulated a new Shop Hours Act scheme which it is hoped will come into force in 1939. Under the scheme chemists' shops will close at 7.30 p.m. instead of 8 p.m. during four days of the week for five months of the summer season commencing in May.

**AIR RAID PRECAUTIONS.**—The Medical Officer of Health for the City is to formulate, in collaboration with the chairman and secretary of the local Branch of the Pharmaceutical Society a plan whereby a list giving the average stock of dressings at each chemist's shop in Cardiff will be made. When the A.R.P. first-aid stations are opened the municipality will thus know the average stock of all dressings held by the chemists nearest each station so that some casualties can be diverted to them or their stocks called upon if required.



# News in Pictures

(Right) **ILLCIT OPIUM CULTIVATION**—Police and officials of Central Narcotics Intelligence Bureau at confiscation of illicit opium poppy cultivation at Sahel Selim, Upper Egypt.



(Across page) **B.M.A. AT PLYMOUTH**—Delegates at annual conference of British Medical Association, Plymouth, in full dress procession at official church parade.



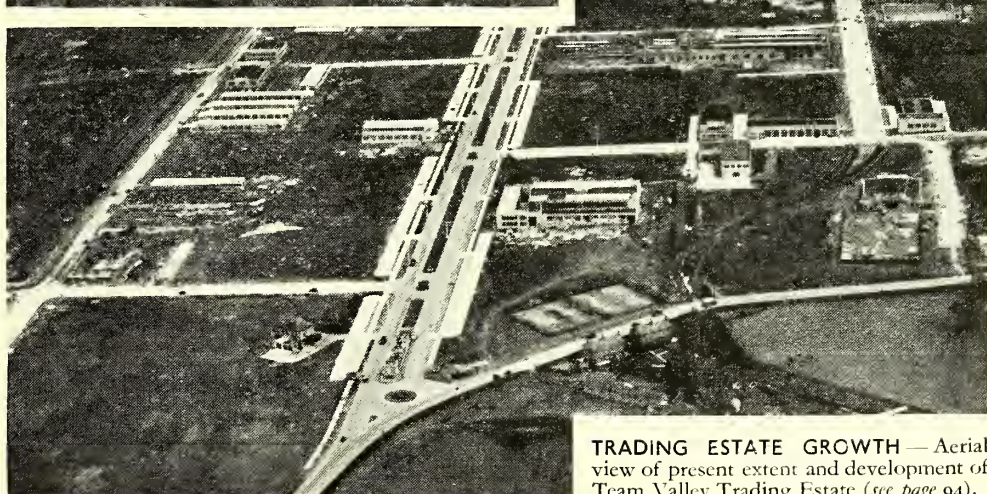
**PHARMACIST IN DAIL**—Mr. Frank Loughman, M.P.S.I., Clonmel (see page 96).



(Left) **VETERAN EMPLOYEES**—Messrs. Harry Kelsey and William Simpson (see page 103).



**DUNCAN MEDALLIST**—Mr. John C. Henderson, who has been awarded the Duncan medal (see page 96).



**TRADING ESTATE GROWTH**—Aerial view of present extent and development of Team Valley Trading Estate (see page 94).



## Irish Notes

### Pharmaceutical Society of Ireland

The Registrar's office and the headquarters of the Pharmaceutical Society of Ireland will be closed during August.

The following are the results of the July Licence Examination held by the Society:—*Passed with Honours*, Edward Foster Lee; *Passed*, Agnes Ahern, Peter Paul Connolly, Timothy Joseph Lynch, Philip Patrick McArdle, Ellen Theresa Mullen, Francis Eugene Smith; *Referred in Chemistry*, Patrick Fanning.

### Miscellaneous

**FIRE.**—An outbreak of fire occurred at the premises of Mr. W. M. Cross, Ph.C., George Street, Coleraine, on July 14.

**DAIL DEPUTY.**—Mr. Frank Loughman, M.P.S.I., Clonmel, the newly elected Government Party Deputy for Tipperary in Dail Eireann is stated to be the only member of the Eire legislature who is a practising pharmacist. A native of Carrick-on-Suir, he served his apprenticeship there before serving under Mr. George Brown, Stephen's Green, Dublin. He obtained his Assistant's qualification in April 1915, and Licentiate qualification in February 1917, following which he gained further experience in the provinces, and in 1920 acquired the business of Mr. D. W. Parke, Clonmel. In addition to an extensive pharmaceutical business in Clonmel, Mr. Loughman is Compounder in Clonmel No. 1 and No. 2 districts and the St. Mary's District, co. Waterford. He is chairman of the Waterford and Tipperary (South Riding) Chemists' Association, which is allied to the Irish Drug Association, and a member of the Committee of the Irish Compounders' Association. Mr. Loughman has been associated with the Gaelic League for a long period. (Portrait, p. 95.)

## Scottish Notes

### Edinburgh

**DUNCAN MEDAL.**—Mr. John C. Henderson, son of Mr. J. C. Henderson, Ph.C., has won the Duncan medal for the best pharmacy student in the Chemist and Druggist Qualifying course at Heriot-Watt College, Edinburgh. (Portrait, p. 95.)

**GOLF.**—In the Edinburgh Chemists' Golf Club competition, played over Ingliston course on July 20, the results were:—1, Mr. James Finlay (scratch), 72; 2 (a tie), Messrs. D. N. L. Philp (7) and J. McLaren (11), 75.

**EDINBURGH CHEMIST BOWLERS.**—The competition for the McIlwrick Trophy was played on the Willowbrae Green on July 20, resulting in the success of Mr. A. Black, with Mr. A. E. Mason as runner-up. The prizes were given by Pinkerton Gibson & Co., Ltd., and Raimes, Clarke & Co., Ltd., and they were presented to the winners by the previous holder of the trophy, Mr. John H. Tainsh.

### Miscellaneous

**H. PICKLES & Co.**, Dundee, have removed to Queen's Hotel Buildings, Nethergate, Dundee.

**DRUG ACCOUNTS COMMITTEE.**—Mr. J. B. McVitie, M.P.S., Glasgow, and Dr. J. Tait, Edinburgh, have been elected to represent the Burgh Panel Chemists and the County Panel Chemists respectively on the reconstituted Drug Accounts Committee (Scotland).

**PAISLEY CHEMISTS' OUTING.**—The Paisley and District Chemists' Association held their summer outing recently. The party, including members and friends from the wholesale trade, travelled by motor-coach to Crieff, by way of Callander and Lochearnhead, returning via Dunblane and Stirling.

# Topical Reflections

By Xrayser

### The B.M.A. Conference

I, too, found much of interest in the proceedings of the British Medical Association's annual conference (*C. & D.*, July 23, pp. 76, 81). The remarks of the president on proprietary medicines do not, as reported, tell us much that we did not know before; the resolution on the alleged abuse of hospital contributory schemes has more substance in it. A few minutes before I opened my copy of your last week's issue I was reading in "The Times" of July 22 a letter by Dr. O. P. Clark, of Worthing, mainly concerned with this subject. In the course of a trenchant attack on the contributory system he wrote "... if not 95 per cent., certainly 80 per cent., of my patients now come to me not to consult with me or to ask my advice about anything, but simply to ask for a ticket to some hospital department or other. I am at liberty to refuse to give it, of course. I have done so, on occasion, and sadly, from behind my front room curtains, watched the grossly offended and outraged patient walk the few yards along the road ... and ring the door-bell behind the next brass plate." Dr. Clark went on to visualise a day when "the last of the general practitioners have been wiped completely out of existence and their places taken by a crowd of ultra-efficient clerks and glorified shopwalkers dancing attendance on a small hierarchy of specialists of the narrowest type." I am not sure whether the sympathy of pharmacy in this matter is desired; but I may remark that if the patient of the future is to obtain his entire treatment from hospitals, there will not be much left for either the general practitioner or the pharmacist in business to do.

### National Medical Service Proposal

The increasing financial strain on the larger hospitals of the country seems to point to the probability of Government aid being invoked before long, with some measure of official control as an outcome. This, viewed in conjunction with the proposals made in the fifty-page pamphlet lately issued by the B.M.A., brings appreciably nearer the likelihood of a State medical service for the whole population. It may be, as you suggest, that the younger medical men are favourably disposed

towards such a scheme; but I am fairly certain that it will be bitterly resented, if not strongly contested, by older practitioners. I remember the perturbation in the profession while negotiations over the first National Health Insurance Bill were going on—excited meetings of committees and a "diehardism" which threatened to kill the scheme at or before its birth. One may safely venture a forecast that if practising medical men are to become State servants by Act of Parliament, the old personal relation between practitioner and patient will be a thing of the past.

### An Elaborate Pamphlet

With your remarks on better publicity for British Pharmaceutical Conference meetings I am in general sympathy. I foresee one difficulty in the case of the delegates' meetings: if it is proposed to hold these in public, the cry "Remember Cheltenham!" will probably be raised. Those who were present at the second of the two delegates' meetings of that Conference will no doubt remember the interposition of the late Mr. F. G. Hines before the first paper was read, an action prompted by the circumstance that something said on the previous day had been "featured" by the national and local Press with headlines regarded by their respective authors, no doubt, as appropriate, but by pharmacists as conveying an unfortunate impression. The lesson of that incident is, surely, not that pharmacists should hold all discussions in private, but that when they intend to speak *urbi et orbi* they should sub-edit their remarks in advance, with such help, if any, as they may need. The pamphlet referred to in my previous paragraph may furnish a hint for organised pharmacy. It is undoubtedly too long; but it is carefully written, and has been advertised in leading daily papers with a coupon for the supply of a free copy. The members of the National Pharmaceutical Union have negated one form of collective advertising, and their Executive will no doubt wish that the initiative for any future scheme shall come from the rank and file. That, however, is no reason why a brief and well-written pamphlet setting forth the place of pharmacy in the national economy should not be circulated.



# Imperial and Foreign News

## China

**JAPANESE PHARMACEUTICAL ENTERPRISE.**—A pharmaceutical concern with a capital of £600,000 is to be established in Peking under the joint control of the Oki Gomei Kaisha and Yamakawa Pharmaceutical Company and at the request of the Japanese Army. The new company will be entitled the New China Pharmaceutical Company; branches will be established in Tientsin and other cities in North China. It is believed that a number of other Japanese pharmaceutical concerns will eventually participate in the scheme.

**DECLINE IN FOREIGN TRADE.**—Recently published import returns of the Shanghai Maritime Customs (now under Japanese control) indicate a marked decline in the volume of business done in Japanese-controlled China recently, as shown in the following figures:—

IMPORTS FOR PERIOD JANUARY TO MARCH			
		1937	1938
Medicinal substances and spices	...	\$1,294,940	\$254,769
Chemicals and pharmaceuticals	...	\$8,654,072	\$1,569,963
Soap, oils, fats, etc.	...	\$12,371,501	\$6,185,855

## Cuba

**REGISTRATION OF PHARMACEUTICAL PRODUCTS.**—By a recent decree, owners or duly authorised agents of pharmaceutical specialities now sold in Cuba must, prior to July 20, notify the Cuban Inspector-General of Pharmacy as to the names of their products, the official registry number, and the name of the person or entity in whose favour the registry was made.

## Dutch Indies

**ANALYSIS REQUIREMENTS.**—Insulin, pituitary extract, digitalis, and cod-liver oil sold in the Netherlands Indies have been made subject to Government analysis and to certain qualitative standards by a Decree recently issued under the Pharmaceutical Products Control Act, 1936. Another Decree published at the same time controls labelling and advertising of these products.

## Germany

**LEIPZIG FAIR.**—The autumn fair will be held from August 28 to September 1. About 5,800 firms have booked space, of which 130 are connected with the chemical, pharmaceutical and cosmetic industries. In the cosmetics section Viennese firms will be taking part for the first time.

## India

**DEATH OF BOMBAY DRUGGIST.**—In memory of Mr. Uttamlal Lalloobhai Mehta, founder and proprietor of Girdhar Javer & Co., chemists, Princess Street, Bombay, all pharmacies in Princess Street were closed. Mr. Mehta founded the firm, which has branches in Madras and Rajkot.

## Malta

**MINIMUM PRICES ACTION.**—An attempt is being made to ensure minimum wholesale and retail selling prices in Malta. Hitherto isolated firms have imposed conditions of supply, but the "stop list" failed to act as a sufficient deterrent against price-cutting. Mr. Charles DeGiorgio, concessionaire of certain manufacturing concerns, has refused supplies to chemists who are unwilling to sign a price-maintenance agreement containing a £5 penalty clause for each infringement. His tariff prices allow a retailer's profit of 33½ per cent., and a wholesaler's profit of 25 per cent. Every chemist in Malta except one has supported the movement, and the one dissident refuses, not on the ground that he disapproves of the agreement, but because he claims that the penalty clause is humiliating as showing evidence that his word not to undercut is regarded as insufficient. Mr. DeGiorgio has stated that he found it necessary to include the penalty clause as many chemists would not abide by an ordinary undertaking. "I am not seeking to speculate or make capital out of the clause," said Mr. DeGiorgio, "and in cases of infringement I shall hand the penalty to THE CHEMIST AND DRUGGIST for distribution to charitable causes or other suitable funds."

## New Zealand

**DOMINION DRUG TARIFF.**—Provisional proposals for a Dominion drug tariff have recently been put forward in New Zealand by the Pharmacy Plan Industrial Committee, which was established under the Industrial Efficiency Act some months ago. According to information given by Mr. E. R. Myers, director of pharmacy, an extensive analysis of drug prices was regarded by the Committee as a matter of great urgency, and the proposed drug tariff would come into force by means of regulations made by the Governor-General in Council. Wholesale merchants had been approached and asked for quotations, figures from which had been tabulated and compared in order to arrive at a basic cost for approximately 1,500 items. The Committee found it necessary to take into consideration the relation of the tariff to the service fees in fixing the profit percentages to drug costs. Turnover had also had to be considered, for some drugs would have to bear a higher percentage of profit because of slow turnover, liability to spoilage and losses in handling and manipulation. The Committee had engaged the services of those with specialised knowledge, although itself possessing a wide practical experience. It was intended shortly to issue a questionnaire which would be very comprehensive in character and which, when completed, would put the Committee in a strong position to speak on the condition of pharmacy anywhere in the Dominion. No regulations had yet been issued which would give the Committee statutory powers and duties, although the Committee had been actively engaged in taking the necessary steps towards giving effect to the plan. The documents circulated as a provisional plan, and upon which the proprietors of pharmacies were invited to vote, were perhaps better described as proposals for a plan. Matters which were envisaged in the provisional plan as part of the general scheme for the rehabilitation of pharmacy included an improved Pharmacy Act to consolidate not only the professional standing of pharmacists, but to clear up the question of what may or may not be regarded as exclusively the chemists' business, the better control of quackery, and national health insurance. The regulations were such as came within the scope of the Industrial Efficiency Act, and the draft of these was being revised by the Crown Law Office in accordance with the usual procedure.

**LICENCE REFUSED.**—A refusal of permission to open a pharmacy has caused much controversy in New Zealand. The case concerned a pharmacist who wished to open a business of his own at Mission Bay, and it provides an illustration of the working of the Industrial Efficiency Act. The chemist appealed against the decision, but the appeal was rejected. The chemist concerned made application to open the pharmacy early in January, pointing out that in a certain district there were about 1,400 homes, and only one chemist's shop. The Bureau of Industry intimated that there would be an unavoidable delay in granting a licence. Until the end of March the pharmacist was kept in ignorance of his prospects regarding his new business, when he was informed that his application had been declined on the grounds that the district was sufficiently served by the existing pharmacy, and that the granting of the application would result in economic waste.

## South Africa

**COSTS AND TURNOVER.**—An editorial article in the "South African Pharmaceutical Journal" (June 1938, p. 5) gives the following figures relating to chemists' businesses in the Union.—Average turnover, £250 per month; average proportion of dispensing, 15 per cent.; minimum wage of qualified assistant wherever Wage Act operates, £30 per month (=14 per cent. of turnover figure). On this basis, less than two hours' work per qualified man per day is represented by dispensing, leaving him abundant time to handle the "easy turnover" of which he is largely deprived, it is complained, by competition of unqualified proprietary medicine licence holders.

## United States

**AMERICAN PHARMACEUTICAL ASSOCIATION.**—The eighty-sixth annual meeting of the Association and affiliated organisations will take place at Minneapolis, Minnesota, from August 20 to 27. The main science sessions are arranged for August 24 and 26.



# Legal Reports

**Unauthorised Possession of Dangerous Drugs.**—At Colchester, on July 12, Stephen Saunders Harding, a chef, was charged with stealing a variety of surgical instruments and a quantity of drugs and poisons, the property of the Secretary of State for War, on several dates, and with being an unauthorised person in possession of certain drugs (two tubes of morphine tartrate, and one tube of morphine hydrochloride, containing 11 grains altogether) on July 6. He pleaded guilty.

P.C. Rickett gave evidence that he saw prisoner at the R.A. Mess, Colchester, and Harding produced the articles from a locker, saying that he brought them with him when he left the Army in 1928. He subsequently made a statement that he got the drugs and poisons from the Colchester Military Hospital, and had had them since 1928. He was in the R.A.M.C. at the time, and had no particular reason for bringing the drugs away. He knew they were dangerous drugs, and that he had no right to them. When he left the Service in 1928 he took them with him to Ashford. Two days later he received a telegram to go back and serve in the Military Hospital in a civilian capacity. The drugs had been in his possession for no particular reason. The chairman (Mr. C. C. Smallwood), intimating fines of £1 on each of the first two charges, and of 10s. on the third, said Harding could have been sent to prison. In view of the fact that this happened ten years ago, that, apparently, he had made no misuse of the articles, and that he bore a good character, the Justices had taken a lenient view.

**Illegal Sale of Strychnine.**—At Dumfries Sheriff Court, on July 19, Duncan Campbell, M.P.S., 62 High Street, Lockerbie, admitted having sold strychnine hydrochloride to two customers otherwise than as an ingredient of a medicine, and put forward a plea that he did not know of new regulations regarding supply of strychnine. Mr. W. G. M. Dobie, solicitor, on behalf of Campbell, said that prior to the new regulations (in force since 1936) it was quite common for a chemist to supply customers whom he knew, and who signed the poisons book, with strychnine for destruction of vermin. Both customers signed the poison book, so there was no attempt at concealment. Defendant was fined £3.

**Alleged Intent to Defraud.**—The hearing of the summons against Mark Posener (*C. & D.*, July 16, p. 52) was concluded at Woolwich Police Court, on July 26, when the accused was committed for trial at the County of London Sessions. (The first hearing was at Greenwich Police Court.) Mr. John Maude again appeared as prosecuting counsel and Mr. Prothero for the defence. At the outset Mr. Powell (the Magistrate) said he understood the accused wished to go for trial and Mr. Prothero agreed this was so if the magistrate found there was a case to answer. John Pierce, employed by a firm of chemists at Catford, gave evidence that at Catford market on June 10 he purchased a bottle of what the defendant described as Brylcreem. Witness denied it was Brylcreem and defendant, on being challenged, took a roll of Treasury notes from his pocket and said he would give them to any hospital anyone liked if it was not Brylcreem. He paid ninepence for the bottle. In cross-examination he said he went there for the express purpose of buying Brylcreem, but saw no Brylcreem on the shelves or anywhere else. He was eight or nine yards from the defendant's rostrum. He was positive the defendant said he would give £10 if it was not Brylcreem and not that the preparation was as good as Brylcreem. He saw nobody protest while he was there, nor did he see the defendant hold up a bottle of Brylcreem in one hand and a bottle of Modern Hair Cream in the other. Mr. T. McCartland, of 10A Featherstone Buildings, High Holborn, said he was public analyst to the Westminster City Council and the Boroughs of Chelsea and Fulham. He had examined the three bottles submitted to him as having been purchased from the defendant, and they were not up to the standard of Brylcreem. He knew the constituent parts of Brylcreem, having had the secret formula disclosed to him. This was a yellow cream as against the white of Brylcreem. There was a standard for Brylcreem, and anything that did not come up to that was a substitute. The secret was in the emulsion of the water and the oil. The oil in the three bottles produced was very common as against that in Brylcreem.

Mr. Norman Hill (a director, County Chemical Co.) said that Brylcreem was a standard product, and the secret as to its manufacture was jealously guarded. The makers had nothing to do with modern hair cream. In cross-examination he said that if a man was standing up in the market and held up the bottles side by side, there could be no mistake as to which was the genuine, at least so far as he could see.

At this stage the magistrate asked the defendant if he elected to go to the Sessions for trial, and Mr. Prothero, on his behalf, pleaded not guilty and said he would go to the Sessions. Posener was then released on bail.

**Pharmacy Act (Ireland) Prosecutions.**—At Naas District Court on July 13, before District Justice Reddin, a series of prosecutions was brought by the Pharmaceutical Society of Ireland against two local merchants and a pharmaceutical chemist for breaches of the Pharmacy Act. In the first case Mr. T. J. White, merchant, was summoned with a breach of the Pharmacy Acts by selling poison contained in a packet of sheep dip to a person unknown to the vendor. Mr. Wm. J. Coogan, an inspector of the Society, gave evidence of purchase under a fictitious name and address. The Poison Book which he signed was produced. Mr. John J. Gaynor, solicitor for the Society, said the inspector gave a fictitious name to prove that he was a person unknown to the seller. The Act also specified that the poison should have a label with the name and address of the seller, but there was none in this case. In the public interest the Society insisted that poisons must be labelled. If poisons were sold for an improper purpose and bore the name and address of the seller it would make it possible for the police authorities to trace the source of supply. Mr. P. Wilkinson, solicitor, defending, said his client had observed all the regulations. The only thing was that this man was not vouched for, but he could easily have been a new farmer in the district, which defendant believed he was.

A similar summons was brought against Mr. Thomas McDermott, whose solicitor said the offence was admitted; defendant had a new assistant who was not aware of the procedure.

Mr. John Conway, L.P.S.I., Naas, was summoned for not employing a qualified person for dispensing a medical prescription, and for selling a poison through an unqualified person. Thomas Lanigan, assistant in the defendant's employment, was summoned for retailing a medical prescription not being qualified, and Christopher Byrne, workman, was summoned for selling poison, namely lysol, being unqualified. Mr. R. Coonan, solicitor, who appeared for Mr. Conway, contended that the evidence against his client was obtained in an unfair way. The purchases were made while Mr. Conway was absent for half an hour dispensing in the County Hospital. Replying to Mr. Coonan, Mr. J. J. Kerr (registrar of the Pharmaceutical Society) said there was no obligation on Mr. Conway to leave a qualified person in charge of his pharmacy so long as the unqualified person in charge did not compound prescriptions or sell poison.

Giving his decision the justice said if he had been the assistant in Mr. Conway's shop, and had noticed Mr. Coogan's pallor, he would have thought twice before giving him lysol. In the case of Mr. White he would never have thought Mr. Coogan a Kildare farmer. He was certainly not the bronzed open-air type. Mr. Kerr had said there was enough poison in a packet of dip to kill half the town of Naas. That being so any ordinary man would agree that the sale of these poisons must be subject to very stringent regulations. The justice imposed a penalty of £2 with £3 3s. costs against Mr. White, a fine of £3 and £2 2s. costs against Mr. MacDermott, and fines amounting to £6 and £4 4s. costs against Mr. Conway. He found the case proved against the assistant, but dismissed it under the Probation Act, allowing £1 1s. costs. The Society did not press the case against the workman, and it was dismissed under the Probation Act.

**PENSIONS SCHEME.**—Nearly 295,000 applications have been received from persons wishing to become contributors under the pensions scheme for black-coated workers inaugurated as a result of the passage of the Pensions (Voluntary Contributors) Act, 1937; over 210,000 have already been accepted.



# Company News

P.C. means Private Company and R.O. Registered Office

**THOMOND PHARMACY, LTD. (P.C.).**—Registered in Dublin. Capital £500. Objects: To carry on the business of chemists and druggists, apothecaries, opticians, etc. Joseph Sheehan, 6 Thomond Terrace, Limerick, director.

**COGHAN'S CHEMISTS (ENNIS), LTD. (P.C.).**—Registered in Dublin. Capital £500. Objects: To acquire the business of chemists, druggists, etc., now carried on by Mrs. Mary Coffey, at O'Connell Street, Ennis, co. Clare, as "Coghlan's Medical Hall."

**G. W. KELLY & Co., LTD. (P.C.).**—Registered in Dublin. Capital £1,000. Objects: To carry on the business of manufacturers and importers of druggists' wares, etc. George William Kelly, 8 Palmerstown Villas, Rathmines, Dublin, director.

**S. H. CAMP MANUFACTURING Co., LTD. (P.C.).**—Capital £20,000. Objects: To carry on business as manufacturers of and dealers in belts, bands, braces, anatomical, orthopaedic and surgical appliances, etc. S. H. Camp, Mrs. Margaret Camp, M. Randall, C. H. Fleck and H. C. Menke, directors. R.O.: 19 Hanover Square, Regent Street, W.1.

**SCHOLL MANUFACTURING Co. (EIRE), LTD. (P.C.).**—Registered in Dublin. Capital £1,000. Objects: To carry on the business of manufacturers and importers of foot specialities and appliances of all kinds, etc. Mary Sharkey, 14 Harrington Street, Dublin, and Florence McSweeney, 7 Ballsbridge Terrace, Dublin, subscribers. The first directors are not named. R.O. not given.

**HARCRAFT, LTD. (P.C.).**—Capital £2,100. Objects: To enter into an agreement with Harcraft Co., of Los Angeles, California; and to carry on business as manufacturers of and dealers in paper towels and cabinets for distribution thereof, toilet requisites, etc. The first directors are Leo Mayer Harvey, Lawrence A. Harvey, Gerard P. Power, Fair House, Lapworth, Warwickshire, and John J. Cheesman. R.O.: 29 Bruton Street, London, W.

**THE GOLDEN VALLEY OCHRE AND OXIDE Co. (YATE), LTD. (P.C.).**—Capital £34,500. Objects: To acquire that portion of the mining and manufacturing business carried on by the Golden Valley Ochre and Oxide Company, Ltd., at Yate, near Bristol, together with certain assets used in connexion therewith, and to carry on the business of manufacturers of and dealers in all classes of colours, dyes, paints, varnishes, chemicals, drugs, minerals, etc. The first directors are Norman S. Kinnersley, The Homestead, Keynsham, Somerset, company director; Albert H. Orchard, The Elms, Wick, near Bristol, company director, and Lt.-Col. Owen H. Bayldon, Charles M. Beavis, Henry W. Beavis and Commander Robert C. Bayldon, addresses not stated.

**THE GOLDEN VALLEY OCHRE AND OXIDE Co. (WICK), LTD. (P.C.).**—Capital £53,000. Objects: To acquire that portion of the mining and manufacturing business carried on by the Golden Valley Ochre and Oxide Company, Ltd., at Wick, near Bristol. All other particulars as given above in the "Yate" Company.

**THE GOLDEN VALLEY OCHRE AND OXIDE (COLOUR) Co., LTD. (P.C.).**—Capital £75,000. Objects: To acquire from the liquidator of the Golden Valley Ochre and Oxide Co., Ltd., of Wick, near Bristol, the goodwill of that company, together with the freehold hereditaments and premises at Wick and Yate, Glos., and certain rights and liberties held and enjoyed in connexion therewith, and certain shares and debentures held in its name, and its interest in the partnership carrying on business as the "Musa Syndicate" at Wick, and to carry on the business of general investment trust company, without any limit upon its sphere of operations, and that of prospectors, manufacturers of and dealers in crude and manufactured earths, ochres, oxides, tin, lead, copper, manganese, and other ores, metals and minerals, manufacturers of and dealers in all classes of colours, dyes, paints, chemicals, drugs, etc. The directors are the same as given above in the "Yate" company.

**FRANCIS RIDDELL, LTD.**—A resolution was passed at the annual meeting of the company increasing the capital from £25,000 to £35,000, to meet a proposed extensive advertising and propaganda programme. The 6 per cent. preference dividend has been paid to June 30, 1937, and 12½ per cent. will be paid on the ordinary shares.

## Compulsory Liquidation

**H. Gordon (London), Ltd.,** 8 City Road, London, E.C., druggists' and chemists' sundriesmen.—Meetings of the creditors and shareholders under the compulsory liquidation of this company were held recently at the Board of Trade offices, Carey Street, W.C., before Mr. E. T. Sanders, Assistant Official Receiver. The company was formed in July 1922 to acquire the business previously carried on by H. Gordon, Ltd., at the same address. The issued capital was £2,501. Mr. Gordon stated that he first came to England from Russia in 1885, his proper name being Maurice Teitz. He commenced business on his own account as a druggists' sundriesman in 1907, and in 1915 he formed H. Gordon, Ltd., which acquired his business. This company carried on successfully until 1921, when a heavy loss was incurred under the scheme set up by the export credits guarantee department of the Board of Trade for assisting trade with foreign customers. In February 1922 a receiver was appointed by the debenture holders, and he was also appointed voluntary liquidator. The creditors desired the business to be continued, and the new company was formed accordingly. It dealt in all kinds of chemists' sundries and fancy goods, and had a large overseas trade, with agencies in India, South Africa, New Zealand, Australia and many foreign countries. Various debentures were issued, and in June last joint receivers were appointed on behalf of the bond holders. No statement of affairs had been submitted, but a balance sheet drawn up at the date of the receiver's appointment showed assets £19,093. These are expected to be entirely absorbed in the debentures, and no surplus is expected to become available to meet unsecured debts, £34,008. The liquidation was left in the hands of the Official Receiver.

## Bankruptcy Reports

**Re Thomas Morley Willoughby,** 58 Dover Road East Northfleet, Kent, chemist. The public examination herein took place recently at the Court House, Eastgate, Rochester. It was stated that the liabilities amounted to £415 os. 4d., and there were assets of £62 12s., or a deficiency of £352 8s. 5d. Debtor attributed his failure to insufficient turnover, and the non-development of a local housing site. He formerly carried on business at Wadebridge, Cornwall, and commenced trading at Dover Road East, Northfleet, in December 1935 with a small capital. The turnover there was between £600 and £700, on which debtor estimated that he made a gross profit of 25 per cent. At about Christmas last year debtor was informed that a near-by housing estate would not be proceeded with, and as a result his trade did not improve. The examination was closed.

**Re Michael Harry Kirsch,** trading as Grocers & Chemists Sundries Co., 1-2 Elmer Place, Queen's Road, Southend-on-Sea, and lately trading as "Southend Smallware Co.," 410 Station Road, Westcliff-on-Sea. This debtor's public examination took place at the Petty Sessions House, Southend-on-Sea, recently. According to the statement of affairs there were liabilities of £427 19s. 9d., and assets of £90 1s. Debtor agreed that there was a possibility of the liabilities being increased by a further £91 15s. 7d. He stated that he was formerly engaged in the soap and perfumery trade. He adopted the existing trading style of "H. Feron," and signed cheques in that name. He removed to Queen's Road in February this year, taking those premises in the name of "Harry Feron." He attributed the failure of that business to the restrictions imposed under the Sunday Trading Act. The examination was adjourned.



# Parliamentary News

## RHEUMATISM STATISTICS

The Minister of Health was asked on July 20 whether he could state the comparison, on a population basis, between the number of cases of rheumatism in Lancashire and in the country as a whole?

Mr. Elliot: Except in a few London districts where notification of acute rheumatism in children is being tried experimentally, rheumatism is not a notifiable disease, and I regret therefore that the information required is not available.

## DIABETES AND N.H.I.

The Minister of Health was asked on July 20 the number of persons suffering from diabetes who were dependants of State insurance contributors; and what would be the estimated cost to the fund if the dependants were given insulin free?

Mr. Elliot: I regret that the information desired by the hon. member is not available.

Further questioned whether it would be possible to give this information on a Supply Day, Mr. Elliot said he did not think he would be able to supply it.

## DIPHTHERIA IMMUNISATION, SCOTLAND

The Secretary of State for Scotland was asked on July 25 whether he could state the number of immunised children who had suffered from diphtheria since immunisation was started in Edinburgh, and the number of fatal cases in immunised children; and similar details for Glasgow, Dundee, and Aberdeen?

Mr. Wedderburn: In Edinburgh, out of approximately 27,000 children inoculated against diphtheria since 1924, 140 have suffered from diphtheria and three have died. In Aberdeen, out of approximately 4,500 children so inoculated since September 1936, 23 have suffered from diphtheria and none have died. I regret that information relating to Dundee and Glasgow is not available.

## VACCINATION DEATHS

Mr. Liddall asked the Minister of Health whether the figures in his Department confirmed the estimate that in England and Wales during the thirty-three years ending December 1937 107 children under five years of age died of small-pox while 285 died of vaccination; and whether he could say in what circumstances the 285 vaccination deaths had been caused?

The Parliamentary Secretary to the Ministry of Health (Mr. Bernays): During the thirty-three years 1905-37 inclusive 118 deaths of children under five in England and Wales were assigned to small-pox. During the same period the deaths of 291 children of the same age group were assigned to vaccinia or causes associated with vaccination. All such deaths which come to the knowledge of my Department are investigated and a record is kept of the circumstances.

The Minister of Health was further asked on July 20 what were the ages of the five other fatal cases not included by the Registrar-General in his list of deaths from vaccinia or other sequelæ of vaccination in 1932, as stated by the Minister in his answer on March 21, 1933?

Mr. Elliott: Three of the deceased were three weeks old, one was two months old, and one ten months old.

## "QUACK" MEDICINES

In the House of Lords, on July 26, Lord Horder demanded that the Government should take action to control the exploitation of public credulity by vendors of quack medicines. Lord Horder estimated the amount spent on such medicines to be between £25,000,000 and £30,000,000 a year. The advertisements by which they were sold—which were often misleading if not fraudulent—were, he declared, a graver danger than the medicines themselves; he stated that he had the sympathy of reputable newspapers in pressing for some reform. A Government measure dealing with this matter would be a suitable corollary to the efforts being made to improve national fitness.

On the assurance of Lord Gage, who replied for the Government, that the Minister of Health would examine Lord Horder's speech and consider whether some warning about the abuse of drugs could be incorporated in the educational side of the national fitness movement, the motion was withdrawn.

## CANCER RESEARCH

The Chancellor of the Duchy of Lancaster, as representing the Lord President of the Council, was asked on July 26 the amount of public grant made during the last twelve months towards the cost of cancer research involving experiments on living animals; and the amount granted in respect of such research not involving such experiments?

The Chancellor of the Duchy of Lancaster (Earl Winterton): The amount expended by the Medical Research Council from public funds during the last financial year on investigations into the nature and cause of malignant disease and methods for its treatment was approximately £6,000, in addition to which valuable quantities of radium were lent to hospitals for this purpose. It is not practicable, however, to give separately the cost of such parts of this work as involved experiments on animals.

## ADMISSION OF ALIEN MEDICAL PRACTITIONERS

Asked on July 25 whether he could state the number of foreigners admitted to practise as physicians and surgeons in this country for the years 1934, 1935, 1936, and 1937, the qualifications required of the doctors before permission to practise was granted; and the numbers of such foreign physicians and surgeons resident in Britain in the year 1937.

The Home Secretary (Sir Samuel Hoare) referred the question to a reply given in March to the first part of the question. Permission to practise, he said, had been given only when the person had been admitted to the British Medical Register. As regards the last part of the question, figures could not be furnished without a detailed examination of the records of aliens registered with the police.

## MALARIA PROPHYLACTICS

The Secretary of State for War was asked on July 26 what proportion of the new drugs now being employed in combating malaria in the British tropical empire, especially atebrin and plasmoquine, came from countries outside the British Empire, and whether stores of these drugs were maintained with a view to ensuring that, in the event of war, tropical territories and the British Army would be safeguarded from disease epidemics?

Mr. Hore-Belisha: I understand that there is no technical difficulty in making these drugs which do come from outside the British Empire. Stocks are held and quantities are reviewed from time to time. The question whether stocks are maintained for use by the civil populations of tropical territories is one for the Governments of those territories.

## OPIMUM EXPORTS FROM INDIA

Mr. Day asked the Under-Secretary of State for India on July 25 the amount of opium exported by the Government of India, the total revenue received from the export for the twelve months ended to the last convenient date, and the countries to which the opium was exported?

The Under-Secretary of State for India (Lieut.-Colonel Muirhead): The approximate quantity of opium exported from India during the year ended March 31, 1938, was 19,227 kilograms, of which Burma took 18,478 kilos, Aden and Dependencies 56, French India 682, and Zanzibar and Pemba 11. It is not possible to state the revenue derived from these exports, but the estimated value of the exports was £30,000.

Mr. Day: Is it customary to take the full charges from the gross revenue?

Lieut.-Colonel Muirhead: I do not quite follow what is the point of the hon. Member's question.

Mr. Day: In computing the revenue, is the cost of the opium taken into consideration?

Lieut.-Colonel Muirhead: I have informed the hon. Member that it is not possible to state the revenue. I gave him only the estimated value of the exports.

Mr. Robert Gibson: Which European country takes most of that opium?

Lieut.-Colonel Muirhead: The exports were to Burma, Aden, French India, Zanzibar and Pemba.

Mr. Gibson: Do European countries take any of it?

Lieut.-Colonel Muirhead: No.



# Shopfitting and Display

**YARDLEY DISPLAY STAND.**—Illustration shows new display stand for Bond Street perfume. The background of the display is composed of mirrored glass, giving a high reflection. The face is printed in gold, red, black and blue, and the size is 13½ in. high, 10½ in. wide and 4 in. deep. The unit is offered with orders of £1 or over and is one of a series of handsome display pieces put out by Yardley & Co., Ltd.



tion by a fly-nut. The whole fitting can be folded flat when not in use. Constructed in plywood, and finished in red and cream cellulose lacquer, it is obtainable in the following dimensions: 1 ft. 3½ in. high, 1 ft. 8½ in. wide, and 6 in. deep (front to back). Lettering cut out in plywood and finished green is attached to the top of the stand.

**PROTECTIVE TRANSPARENT BLIND IN USE.**—Reference has been made in these columns to the value of inside window blinds made of Rhodialine Yellow-U transparent cellulose-acetate film for protecting displayed merchandise from the fading effects of ultra-violet rays (*C. & D.*, February 5, p. 163, and March 26,



## DISPLAY STANDS.—

A new stand (illustrated) for sponge bags, and finished in green and cream cellulose lacquer, with heavily plated metal bars for supporting the bags, fitting into slots in the semi-circular platform near the top of the stand, has been introduced by S. Maw Son & Sons, Ltd., Aldersgate Street, London, E.C.1. The stand is 2 ft. 1 in. high, with base measuring 6 in. by 4 in., and is suitable for displaying hot-water bottles during the winter season. The same makers offer a stand specially designed for the display



of beauty aids. This has the advantage of being collapsible, the top shelves being made to fit into slots and held by a peg at the back, and the bottom shelves hinged and held in posi-

p. 385). Through the courtesy of Mr. George Grey, M.P.S. (Perress & Co., Pavilion Pharmacy, 48 East Street, Brighton), who has installed a blind of this type in one of his windows, it is possible to include an illustration of the blind in use. The blind operates on the same principle as an ordinary inside window blind, and can quickly and easily be brought into use.

## Trade-Mark Applications

(From "The Trade Marks Journal," July 20, 1938)

- "BAYER"; for all goods (2) and (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 585,550/551. (Associated.)
- "RIDI-ORA"; for veterinary preparations (2). By A. J. Lowe, 249 Chester Road, Macclesfield, Cheshire. 586,326.
- JOHN HOOPER (signature); for pills (3). By Dr. John Hooper's Female Pills Co., Ltd., 42 Conisborough Avenue, Caversham, Reading. 584,495.
- "HEINRICH KÖNIG" over portrait; for medicated preparations (3). By Karl König, 75 Walderseestrasse, Altona-Elbe, Germany. 581,329.
- "NEISO-LYSATE" and "ENTO-LYSATE"; for lysates (3). By Eli Lilly & Co., 740 South Alabama Street, Indianapolis, Indiana, U.S.A. 583,726/727.
- "FASTAID" label design; for medicated dressings (3) and adhesive dressings (11). By Edward Taylor, Ltd., Monton Fields Road, Monton, Eccles, Lancs. B584,155/156.
- "BENZO-GYNOESTRYL"; for benzoic esters of oestradiol (3). By Roussel Laboratories, Ltd., 1-2 Finsbury Square, London, E.C.2. 585,022. (Associated.)





# Trade Notes

**BONUS OFFER.**—A bonus offer on all orders of Jackson's febrifuge will be made during the period August 1 to September 10. Supplies should be obtained through the usual wholesalers.

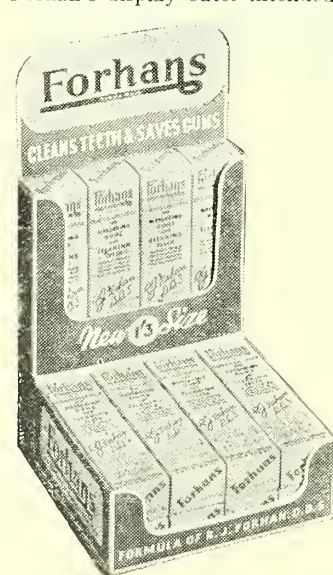
**MONSANTO CHEMICALS.**—Illustrated on this page is a carton of samples which includes a range of some of the pharmaceutical products of Monsanto Chemicals, Ltd., Victoria Station House, Victoria Street, London, S.W.1. It is not intended that these samples should be issued for testing purposes. In cases where samples for testing are required, these are readily provided.

The point about this particular carton is that it shows in an adequate fashion some of the outstanding products made by Monsanto Chemicals. As a form of publicity they are unusual, but likely to be of considerable advertising value.

**HAIR AND BEAUTY FAIR.**—The opening day of the Hair and Beauty Fair at Olympia is September 20, and sites are rapidly being booked. The official prospectus gives complete details, and prospective exhibitors are asked to write for their copy now to Exhibition Manager, 33 Great Queen Street, London, W.C.2.

**"PESTLE AND MORTAR."**—We have received from Howards & Sons, Ltd., Ilford, a copy of their house organ entitled "The Pestle and Mortar." This is the fourth number of Volume III and consists of fifty-four pages printed on art paper. It measures 9 in. by 6 in. and contains articles and news items of interest to the house. The next issue is intended to be a Christmas number.

**FORHAN'S DENTIFRICE.**—Illustrated on this page is a new Forhan's display outer intended for counter or window shows.



Copies of the leaflet may be obtained on application.

**ANNUAL HOLIDAY.**—R. F. Reed, Ltd., Riverside Works, Hertford Road, Barking, inform us that their factory, Riverside Works, will be closed from July 30 until August 8 for their annual holiday.

**WORKS HOLIDAYS.**—The Westbourne Proprietaries, 28 All Saints Road, London, W.11, inform us that their works will be closed during August bank holiday week.

**CALCIUM CARBONATE** in bulk quantities was advertised in last week's issue by E. A. Knight, Avon Vale, Kingston, Ringwood, Hants, who offers to send samples and prices on application.

**GALENICAL PREPARATIONS.**—William Ransom & Son, Ltd., manufacturing chemists, Hitchin, Herts, are drawing special attention to extracts, tinctures, oleo-resins and medicinal resins of their own manufacture.

**NASAL CATARRH SPECIFIC.**—McClure, Young & Co., Ltd., 90 Standard Road, Park Royal, London, N.W.10, announce that over a million catarrh sufferers will be informed in an advertising campaign of the value of McClure ephedrine nasal catarrh specific in the treatment of catarrh and hay fever. This preparation is packed in bottles, with drop stopper, in one size only.

**QUICKIES** is the term applied to small round pads of a special cloth kept ever-moist with a soapless solution which is anti-drying to the skin and is intended as a facial cleansing pad. They are packed in a carrying container for the handbag and in a larger size holding 100 refill pads as a stock supply. Both containers are wrapped together for a unit sale of the complete set. This new cleansing pad is pleasant to use and is delicately perfumed. The counter container shown on this page measures 9½ in. wide, 7½ in. deep and 3½ in. high. Quickies are a product of



Tattoo, Ltd., and are distributed by Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1. They will be extensively advertised in the leading dailies and magazines. Further details are given in our advertisement pages.

**POTTER & CLARKE, LTD.**, directed attention in last week's C. & D. to a number of their selected products, inviting buyers of either large or small quantities to send for samples. Messrs. Potter & Clarke issue B.P. lysol packed or in bulk at competitive prices.

**MERITOR TOOTHBRUSHES.**—S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C.1, are advertising regularly in the national Press Meritor toothbrushes. Chemists are invited to link up with this propaganda. Velfin pads are also being increasingly advertised.

**MOORLAND INDIGESTION TABLETS.**—Despite the increasing number of indigestion medicaments, W. B. Cartwright, Ltd., Rawdon, Leeds, report steady growth in the demand for Moorland tablets. These are extensively advertised in the national Press and elsewhere. They are obtainable in two sizes: the smaller size in cartons, the larger in tins.

**EVANS' MEDICAL PRODUCTS.**—Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, have added three new products to their streptocide series of sulphanilamide preparations. These are as follows:—Streptocide cream in 2-oz. collapsible tubes; powder in bottles of 1.4 and 16 ozs., and solution in boxes of 6 x 5 cc. ampoules and 25 x 5 cc. ampoules.

## Births

Notices for insertion in this column must be properly authenticated.

**CHUTER.**—On July 23, Dorothy, wife of Arthur J. Chuter, M.P.S., The West End Pharmacy, Chippenham, Wilts, of a son.

**BAILEY.**—On July 23, Audrey Margaret, wife of Leonard A. Bailey, Ph.C., Highlands, The Ridge, Orpington, Kent, of a daughter.

**HIRST.**—At 33 Park Lane, Roundhay, Leeds, on July 22, Joan, wife of Geoffrey Hirst (chairman and governing director, Hirst, Brooke & Hirst, Ltd., Leeds) of a son.

## Marriages

**GUTTERIDGE—KERSHAW.**—At Castelmere Methodist Church, Rochdale, on July 19, George D. Gutteridge, M.P.S., Rochdale, to Emily Kershaw, M.P.S., Rochdale.

**JONES—AYRTON.**—At Kingston and Surbiton Presbyterian Church, on July 18, William H. Jones, M.P.S., to Elsie E. Ayrtton.

**TUTTY—DAUGHTON.**—Recently, Henry Tutty, chemist and druggist, Lincoln, to Margaret I. Daughton.

## Deaths

**ABBOTT.**—Recently, Mr. John Ridley Abbott, M.P.S., 189 Aubrey Road, Smallheath, Birmingham, aged thirty-four.

**ASKEW.**—On July 15, Mr. Frederic Askew, chemist and druggist, George Street, Darlaston, Wednesbury, aged seventy-five.

**BLACK.**—At the Cottage, Prinlows, Leslie, Fife, on July 8, Mrs. Isabelle R. K. Black, widow of the late Mr. James Black, J.P., chemist and druggist.

**DUCKETT.**—On July 17, Mr. Frederick William Duckett, chemist and druggist, 7 Uxbridge Road, Kingston-on-Thames, aged eighty.

**GRANT.**—At Glasgow, on July 12, Mrs. David Grant, eldest daughter of the late Mr. William Rowan, chemist and druggist.

**HORTON.**—Recently, at Bucksburn, Mr. James Alfred Horton, chemist and druggist, aged eighty-seven. Mr. Horton was associated for many years with the volunteer and territorial army movements and was at one time colonel of the Sixth Gordon Highlanders. He was a County Councillor and a Justice of the Peace.

**HULL.**—Recently, the wife of Robert Shortliff Hull, M.P.S., Austerley, Roden Way, Frinton-on-Sea.

**ISON.**—At his home, 97 Long Street, Atherstone, Warwickshire, on July 25, Mr. Charles Edward Ison, M.P.S., aged seventy-two.

**JONES.**—On July 10, Mrs. Winitred Cecilia Jones, M.P.S., wife of John George Jones, Ph.C., Havering Road, Romford. Mrs. Jones qualified in 1924.

**LAMB.**—On July 15, Mr. Raymond Edward Lamb, M.P.S., The Pharmacy, Wimborne, Dorset, aged thirty-seven.

**RIDLEY.**—At Abbey House, Worston, on July 20, Mr. John James Ridley, M.P.S. Mr. Ridley had been for four years manager of the Clitheroe branch of Boots, Ltd., with whom he served his apprenticeship; he had formerly acted as relief manager in various parts of the country. Mr. Ridley was a member of the Limestone Lodge of Freemasons.

**WHITE.**—On July 16, Mr. James Frederick White, M.P.S., Gledholt, Oakwood Grove, Roundhay, Leeds, aged fifty-six.

## Personalities

**MR. SAMUEL TAYLOR, M.P.S.** (Cope & Taylor, 3 Market Place, Derby), addressed the Derby Rotary Club on July 18.

**MR. PHILIP LE QUESNE**, Waterloo Pharmacy, Halkett Place, St. Helier, Jersey, has been elected president of the Jersey Football Association.

**MR. HARRY KELSEY** and **MR. WILLIAM SIMPSON**, who were presented with gold watches recently on completion of fifty years' service with Tomlinson & Hayward, Ltd. (manufacturing and agricultural chemists), Lincoln, joined the firm at the ages of fourteen and twelve respectively. Both started work when the business was carried on at Mint Lane, Lincoln. Mr. Kelsey has been foreman printer for thirty years and Mr. Simpson is works foreman. The presentations were made by Mr. H. C. Wilson (a director). (Picture, p. 95.)

**MR. G. A. NIXON**, who has been awarded the Jacob Bell scholarship, is the elder son of Mr. Harold Nixon (chairman, Ayrtton, Saunders & Co., Ltd.). He was educated at Liverpool College, where he obtained the Whiteley science prize in 1932 and the Lawrence exhibition (awarded on the result of the Higher Certificate examination) in 1934. He served his apprenticeship with Mr. T. Ashworth, Bucks Pharmacy, Liverpool, studied for the Preliminary Scientific examination at the Liverpool School of Pharmacy, and more recently has assisted in the laboratories of Ayrtton, Saunders & Co., Ltd. Mr. Nixon is a second-lieutenant in the Liverpool Scottish Regiment.

**MR. L. F. BRAGA**, who was recently re-elected chairman of the Association of British Insecticide Manufacturers, has been associated with the trade for more than twenty years. His connexion with it dates from his appointment as sales manager to the Manchester firm of McDougall Bros.; later, when Manchester and Yalding interests were fused he was appointed secretary of McDougall and Yalding, Ltd. In 1924 Cooper, McDougall & Robertson, Ltd., was formed with Mr. Braga as manager at the Yalding branch; he was subsequently made a director of Abol, Ltd., when that company came into the group. Recently, he was appointed to the board of Plant Protection, Ltd., a company formed in October 1937 to take over the horticultural interests of the companies previously mentioned and those of Imperial Chemical Industries, Ltd.

## Recent Wills

**MR. SIDNEY GEORGE HADLOW LONG, M.P.S.**, Cregoes, Mylor, Falmouth, Cornwall, who died on May 16, left £7,858, with net personality £5,720.

**MR. KENNETH J. C. MCLENNAN**, chemist and druggist, 4 Cleveland Place East, Bath, Somerset, formerly of Edinburgh, left estate valued at £3,804.

**MR. ADAM BRYDEN, M.P.S.**, Michaelson Road, Barrow-in-Furness, Lancs, who died on February 17, left property of the gross value of £7,167, with net personality £1,836.

**MR. THOMAS ROBERT WILLIAMS, M.P.S.**, Arnold Lodge, 4 Church Road, Shortlands, Kent, who died on September 15, aged eighty-two, left estate gross value £5,675, with net personality £5,564.

**MR. JAMES HERBERT HUTCHINSON**, Vine House, South Parade, Northallerton, Yorks, chemist and druggist, who died on January 16, left estate of the gross value of £4,493, with net personality £3,338.

**MR. HARRY GIBSON HODDER, M.P.S.**, Merton, Worgret Road, Wareham, late of the London Road Pharmacy, Kingston-on-Thames, who died on October 11 last, left £6,269, with net personality £3,693.

**MR. WALTER WILLIAM PRICE, M.P.S.**, Clare, Hill Grove Crescent, Kidderminster, Worcs, who died on May 8, left estate of the gross value of £3,900, with net personality £1,111.

**MR. FRED HARRY HENDRY**, 13 Talfourd Place, Peckham, S.E., chemist, formerly in business in Southampton Street, Camberwell, who died on August 22 last, aged seventy, a native of Hull, left £15,434, with net personality £15,405.





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INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

S/26 Kee-Veeve  
B/20 Lentin

D/22 Raymond Baby Cream

# THE CHEMIST AND DRUGGIST

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### Lord Horder's Outburst

In a speech made in the House of Lords on July 26, Lord Horder had some trenchant criticism to offer on the subject of what were described as "quack" medicines. This trade was commented on by the President at the Plymouth meeting of the British Medical Association (*C. & D.*, July 23, p. 81), and Lord Horder's remarks seem to follow on very much in the same strain. The views of so eminent a medical authority call for, and must receive, no small degree of respect; yet those who have some acquaintance with the proprietary medicine trade to-day are bound to look upon Lord Horder's views as old-fashioned, to say the least, and to conclude they would have been more suited to the state of the trade fifty years ago than they are to-day. Many of the claims made for proprietary products to-day are, of course, in the superlative degree, but to contrast the claims made by proprietary-medicine manufacturers now with the claims of fifty years ago is to show how very great an advance has been made. Gone are the remedies for consumption, cancer and locomotor ataxy, to mention but three out of a very large number of diseases which are no longer held to be curable by a so-called cure-all. Venereal diseases cannot be treated by anyone other than a medical practitioner under drastic pains and penalties. Cough mixtures no longer contain any appreciable quantity of opium or heroin sufficient to render them effective. The Dangerous Drugs Acts are an effective control in regard to medicines containing any proportion of cocaine, morphine and heroin. The Pharmacy and Poisons Act, 1933, has resulted in the replacement in many proprietaries of a noxious drug, amidopyrine, by one of the less dangerous analgesics. Slimming is now

effected by laxatives instead of such toxic substances as thyroid and dinitrophenol. So the contrasts could be continued.

It is perhaps hardly necessary to say that the proprietary medicine industry as a whole to-day makes less objectionable claims than ever before. One of the most important reasons is that reputable newspapers, as Lord Horder himself admitted, will not accept advertisements which appear to be too extravagant in their claims. This has been a reasonably effective measure of control which, it should be noted, has been brought about solely in the public interest.

If the public, in the face of having available "the finest health services in the world", still seek remedies outside orthodox medical approval, the fault cannot lie with the proprietary medicine manufacturers entirely. The health articles by "our medical correspondent" in newspapers all over the country, have also helped to make the public medicine-minded rather than health-minded. It is hardly possible to devise a scheme which will protect the credulous members of the public (who could be excluded from this category?) and not interfere with legitimate trade and even the freedom of the individual to diagnose and treat his own complaint if he thinks fit. After all, the responsibility, as Viscount Gage, for the Government, said, is his own. Succeeding Governments of this country from the inception of the first Medicine Stamp Act in 1783 have, by collecting revenue from the industry, suggested that it was, in effect, a "super-trade." In fact, the Government stamp in itself, despite the injunction that the stamp carried no Government guarantee, has been taken to represent a certain degree of Government recognition. The proprietary-medicine inquiry is still fresh in the minds of most people, and the difficulties of amending this method of taxation are obvious from the fact that so far no scheme seems to be forthcoming for a revision of the duties, which should really be abolished.

One point in Lord Horder's comments which is apt to escape notice is the suggestion that malnutrition is apparently a popular subject on which to pin claims for proprietary medicines. In the trade, it is common knowledge that proprietary medicaments have been the "Aunt Sally" of the medical profession for generations. Yet in malnutrition there is what seems to be an even greater field for exploitation, as the enormous growth of so-called special foods to counteract this condition testifies. The simplest and the most available form of carbohydrate is bread, yet wheat and other cereals are baked, boiled, grilled, toasted, roasted and so on until they become some particular form of expensive cereal food alleged to be more nutritious than bread and sold in fancy packets under a fancy name at fancy prices. If it were possible to market the homely thin slice of bread toasted, who would deny that such a food could become overwhelmingly popular if the weight of advertising were behind it?

### Government Report on Celluloid

In October last, the Home Secretary appointed a Departmental Committee to inquire into the use of celluloid in the manufacture of fancy goods and other articles. The report has just been issued. This is the second inquiry into the use of celluloid, the first having been held in 1912. Since then, there have, of course, been great strides made in regard to the use of substitute products for celluloid,



notably other plastic materials, but apparently none, in the opinion of the Committee, possesses all the desirable properties of celluloid. The Committee has recommended that all celluloid dressing or toilet combs should be marked or labelled with the word "celluloid." The same applies to celluloid dolls. It is curious to find that the principal cause of accidents due to the use of celluloid in the home and every-day pursuits was associated with the use of celluloid dressing or toilet combs.

The report also draws attention to the illicit trade in inflammable film known as "junk," and to the fact that there is no regulation to prevent the sale of cheap imported toy cinemas, in which the standard size inflammable film can be used. The Committee recommend that no person should be permitted to sell or hire or expose for sale or hire any toy cinematograph or optical projecting or viewing apparatus in which artificial light is employed, so constructed as to be capable of use with cinematograph film of a greater width than 20 millimetres.

The issue of such reports which may never become law are liable to have a detrimental effect on sales. It should be pointed out therefore that the Committee's recommendations are not in force, and there is no indication that they will operate in the near future. The Committee has repeated certain recommendations regarding the prohibition or marking of certain articles which appeared in the report of the Departmental Committee on Celluloid mentioned above, and in the report of the Royal Commission on Fire Prevention, 1923. No Government has considered it necessary to give legislative effect to these earlier recommendations as to prohibition or marking. This may be because there is not sufficient evidence to warrant these additional restrictions on business. A warning by the salesman that such goods are inflammable should be sufficient. So many noxious substances are freely distributed by all types of shopkeepers that the usefulness of celluloid should not be denied to the public because of problematical dangers.

## Pharmacy in New Zealand

FROM the news published elsewhere in this issue (p. 97) it seems that New Zealand pharmacists are what may be termed a stage or two ahead of brother pharmacists in this country in regard to trading difficulties. Some time ago (*C. & D.*, January 8, p. 45), attention was directed to the Pharmacy Plan Industrial Committee, which was established under the Industrial Efficiency Act. One of the first duties undertaken has been to promote a drug tariff for dispensing. This tariff, which is expected shortly to make its appearance, is bound to be welcomed if only for the fact that it will standardise prices throughout the Dominion; this will mean that company pharmacists as well as individuals must charge the same price for all dispensing. Such a regulation may seem Utopian in this country and, it must be admitted, is almost impracticable, since there is so much differentiation among pharmacies in this country contrasted with those in New Zealand.

The most important feature of the news item, is perhaps the decision of the committee to refuse permission for a chemist to open a shop. The chemist appealed against this decision, but the appeal was rejected; this may be taken as the first example of limitation of pharmacies in British territory. One aspect of the decision to which considerable objection appears to have been taken is that

the chemist was kept in ignorance of his prospects regarding the new business until the final decision was sent him. Under the existing law the chemist has no further right of appeal. Limitation of pharmacies is glibly discussed from time to time at chemists' meetings in this country, but it is difficult to understand whether or not the true meaning of such a scheme is fully realised. The interpretation of the Industrial Efficiency Act seems to be that the needs of the community, so far as the chemist's shop is concerned, must come first and not profits, and that the needs would have to be assessed presumably by a responsible Government department. The chemist in question was kept waiting for over four months for his decision, during which time he incurred expenses in travelling and the rent of a shop, and as a result of the delay lost his employment at the pharmacy where he worked. This case will no doubt be a subject for serious discussion for some time, and may be looked upon as a warning against inviting still further Government control of pharmacy in this country.

## "Dagenan"

ON p. 107 of this issue an article exclusive to *THE CHEMIST AND DRUGGIST* describes the discovery of M. & B. 693, which will now be known as "Dagenan." This product has obtained considerable publicity in the Press, not only of this country but overseas. The Press in the main has attributed the discovery of this substance to several countries in Europe other than this one, but, as will be seen in the article, the product is entirely British, the clinical work was carried out in a London hospital, and there is every hope that this new product will be another signal success among British achievements in the fine chemical industry. Its value in certain types of pneumonia has been definitely established, and dagenan promises to become of immense importance in the treatment of this disease and will have the additional advantage of being particularly economical in use compared with pneumococcus serum which up to the present has been used extensively in America and elsewhere. It is satisfactory to note that sufficient work has been done to justify the manufacturers in proceeding with the production of the substance on a large scale, and it will be made available generally to the medical profession throughout the world. A note of warning is given in the article that some time must elapse before it is possible to assign the proper role of this new substance in the treatment of pneumococcal infections.

## Swiss Exports

SWITZERLAND'S exports of medicinal products are widely distributed, but more than half the total goes to European countries. Details of destinations for 1936 and 1937 are given in the following table:—

Destination	Francs		Destination	Francs	
	1937	1936		1937	1936
Italy ... ..	721,316	657,896	Cuba ... ..	126,019	167,930
Great Britain ...	387,797	481,599	Egypt ... ..	129,833	165,642
Czechoslovakia ...	278,182	302,133	China ... ..	167,778	155,350
Brazil ... ..	187,425	297,060	Jugo-Slavia ...	10,690	150,379
Netherlands ...	318,620	292,433	Mexico ... ..	113,021	141,162
Austria ... ..	270,799	287,759	Spain ... ..	82,331	139,541
Argentina ... ..	351,935	256,103	Portugal ... ..	50,811	124,144
British India ...	153,353	252,845	Belgium ... ..	191,537	116,536
Sweden ... ..	218,522	234,271	Netherlands Indies ...	58,418	101,422
Roumania ... ..	55,481	217,174	United States ...	73,328	83,425
Germany ... ..	49,034	190,025	All others ... ..	1,055,523	1,062,892
Poland ... ..	86,516	169,689			
			Total ... ..	5,138,269	6,048,310

# The Discovery of "Dagenan" (M. & B. 693)

THE chemical Dagenan, better known as M. & B. 693, was first prepared by Dr. A. J. Evins and Mr. M. A. Phillips in the chemical research laboratories of May & Baker, Ltd., at Dagenham, Essex, England. It is one of a large number of new compounds, the preparation of which was undertaken with a view to finding one having a sufficient degree of activity against the pneumococcus to justify its use in the treatment of acute lobar pneumonia. When sufficient biological data was available to show that the new substances were relatively safe to use, they were examined comparatively for anti-pneumococcal activity by tests in mice inoculated with virulent strains of pneumococci. This work was carried out by Dr. L. E. H. Whitby and his assistants in the laboratories of the Bland Sutton Institute of Pathology, Middlesex Hospital, London. The chemical having the test number 693 was found to have antipneumococcal properties, as thus measured, far superior to any of the others examined, and to have a toxicity notably less than most. Its therapeutic efficiency, as indicated by the ratio between its activity and its toxicity, was easily the highest of any drug in the several series considered, and it was therefore decided to submit it to clinical trial in acute lobar pneumonia in human beings under the designation M. & B. 693.

Dr. G. Mary Evans and Dr. Wilfrid Gaisford, of the Dudley Road Hospital, Birmingham, undertook these first clinical trials. The results obtained in the first few cases treated were so promising that it was decided to conduct an extended trial in as large a series of cases as possible, using an equivalent number of controls. These clinicians subsequently reported: "The results of the treatment of 100 cases of lobar pneumonia with M. & B. 693 are given. The case mortality rate was 8 per cent. as compared with 27 per cent. in a control series observed at the same time."

## Mode of Action

How does Dagenan act? Dr. L. E. H. Whitby was the first to throw light on this question. During the course of the experiments samples of blood and peritoneal fluid from treated infected mice were examined. Pneumococci developed in the peritoneal cavity for at least four hours, but shortly

the organisms showed degenerative capsular changes. The capsules became swollen and crenated and eventually disappeared. The first clinical confirmation of this effect of the drug in the capsule of the pneumococcus was made by Maxwell Telling and W. H. Oliver working at St. Bartholomew's Hospital, London, in a case of massive Type III pneumonia complicated by collapse of the entire left lung. The sputum contained many pneumococci yielding a typical pure primary growth and mouse exudate. On the same day, after 3 gm. of M. & B. 693 had been given, the pneumococci were scanty, pleomorphic and non-capsulated. Primary culture yielded a pure typical growth not agglutinated by Type III or any other serum. Professor Alexander Fleming, working at St. Mary's Hospital, London, then reported that in leucocytized blood M. & B. 693 has no bactericidal power but delays the growth of pneumococci, whereas in normal human blood it completely prevents the growth of pneumococci even when present only in high dilution. The mechanism of the action of M. & B. 693 in pneumonia is at present presumed to involve a direct bacteriostatic action coupled with the production of degenerative changes in the pneumococcus, either or both enabling the leucocytes to complete their destruction of the invading micro-organisms. It is considered that sufficient work has now been done to justify producing the drug on a large scale and making it generally available to the medical profession throughout the world, but a considerable amount of time must necessarily elapse before it will be possible to assign to M. & B. 693 its proper rôle in the treatment of pneumococcal infections.

## Research to Continue

From the scientific standpoint, investigations are being undertaken with a view to ascertaining other useful properties of the drug, and, where these exist, defining them and studying their application in medicine. Patents have been applied for in all the principal countries of the world, and the drug will shortly make its appearance in the world market under the name dagenan, in honour of the May & Baker research laboratories at Dagenham, where the discovery took place.

(See Editorial on opposite page.)

# Hospital Pharmacy in America

THE question is asked in America whether the continued development and improvement of large pharmaceutical firms will render it unnecessary or uneconomical for the hospital pharmacist to manufacture or compound medicinal preparations, so that in time the pharmacy will become little more than a storeroom and the pharmacists mere clerks. In the opinion of Dr. Stainsby, New York, who writes on the medical requirements of the hospital pharmacy, this will never happen. There are too many preparations that deteriorate on standing. There are, furthermore, too many preparations—solutions, for example—that, because of their bulk, make it uneconomical for transportation from the factory to the pharmacy except in concentrated form, and also the educational demands of a high-class hospital make it essential for such institutions to maintain an efficient pharmacy department and competent hospital pharmacists.

## Restriction of Proprietaries

In order to protect the reputation and finances of the hospitals, it has been necessary in many instances to place restrictions on the use of proprietary medications in these hospitals. These restrictions are usually carried out through a committee conveniently called the "formulary committee," which is composed of representatives of the various clinical departments, the pharmacy, and the department of pharmacology, if the hospital is connected with a medical college. Such formulary committees have supervisory powers regarding which drugs shall, or shall not, be issued from the pharmacy, subject to the approval of the hospital administration.

In the New York Hospital the formulary committee functions under the following rules, which have been approved by the

governing bodies of the institution. Simple official (pharmacopœial) substances will be admitted unless they have become superfluous. No article will be admitted (except for controlled research) before its therapeutic value has been established. An article of secret composition will not be admitted. No article which is sold under a proprietary name will be admitted under such a name if a substance of identical composition can be obtained under a non-proprietary name. No mixture of two or more active substances will be admitted unless evidence is submitted that the mixture represents therapeutic advantages over the simple substances. No proprietary article will be accepted before it has been accepted by the council on pharmacy and chemistry of the American Medical Association for inclusion in New and Non-Official Remedies. It is the policy of the committee to discourage the intravenous and intramuscular injections of substances which could be administered orally. The pharmacist is instructed to supply in emergencies preparations not yet accepted by the formulary committee. Heads of clinical departments are to be notified whenever any preparation is considered for elimination from the formulary in order that they may submit their evidence for its retention. Drugs not accepted by the formulary committee may be supplied to the public pavilions if paid for by the department concerned. The chief pharmacist is instructed to issue drugs under rules governing the formulary committee subject to the approval of the medical board. The formulary committee shall prepare and issue new editions of the formulary whenever the medical board considers it necessary. All actions of the formulary committee are subject to the approval of the medical board. The hospital pharmacist is always an active and important member of the formulary committees.



# Recent Research

## Oleoresin of Cativa

THE cativa tree, *Prioria copaifera*, is a tree growing freely in the lowlands bordering the coast from Mexico to Colombia. It yields a copious oleoresin which has been examined by Kalman ("Journal of the American Society," 1938, 1423). Kalman has shown that this resin consists almost entirely of a resin acid to which he has given the name cativic acid, of the formula  $C_{20}H_{32}O_2$  and its corresponding ester catinyl cativati. It must, however, be remembered that combustion experiments without the preparation of a large number of crystalline derivatives and decomposition products are, in the case of amorphous resin products, really little more than a percentage composition, and much more work is needed before a true formula can be established.

## Transparent Turpentine Emulsions

TRANSPARENT emulsions are formed when the refractive indices of both phases are equal at the same temperature, and their preparation, therefore, depends on increasing the refractive index of the aqueous phase by the addition of physiologically inert substances, or lowering that of the oil phase. The following procedures were found satisfactory in preparing such emulsions of turpentine, the refractive indices being determined with an Abbe refractometer at 23° ("Journal of the American Pharmaceutical Association," April, p. 336).

1. Gelatin solution.—1 gm. of gelatin is dissolved in 10 c.c. of hot distilled water, refractive index 1.3500.
2. Glycero-gelatin solution.—Add to No. 1 an equal volume of glycerin. Product, refractive index, 1.4171.
3. Invert sugar solution.—Dissolve 2.5 gm. of tartaric acid in 100 c.c. of distilled water, then 200 gm. of sucrose and heat at 100° for two and a half hours, refractive index 1.4963; after twelve hours refractive index 1.4838; after two weeks refractive index 1.4843.
4. Combine by weight ten parts of No. 2 with 100 parts of No. 3. This will probably have an index of refraction slightly higher than the oil of turpentine refractive index 1.4701. Water is then cautiously incorporated to reduce the index of refraction to that of the oil. This may require as much as 10 per cent. of water.
5. Emulsification.—Place about 10 c.c. of No. 4 in a mortar and emulsify a few drops of the oil. Alternately add increasing amounts of each until 15 c.c. of the oil has been incorporated and the volume of the finished product is 100 c.c. For finer dispersion of the oil, which gives greater stability, pass the emulsion through a homogeniser two or three times. This oil in water emulsion appeared to be stable for at least a year when standing at room temperature in diffused light. If the emulsion is not perfectly transparent, adjustment can be made by adding liquid glucose (refractive index 1.5023) or water, depending on the refractive index of the emulsion.

## Oil of Pinus Halepensis

THE current issue of the "Bulletin of the Imperial Institute" [(xxxvi) 2, p. 157] contains an account of the oleo-resin and essential oil of *Pinus halepensis*, the most important timber tree of Cyprus. The oleo-resin, which closely resembles ordinary turpentine oleo-resin in appearance, yielded 18.8 per cent. of essential oil having a specific gravity of 0.8717 at 15.5°; optical rotation  $-17.5^\circ$ , and refractive index 1.4724. On fractional distillation 55 per cent. was obtained between 152° and 160°, 33 per cent. between 160° and 170°, and 12 per cent. above 170°. The non-volatile residue was 3.2 per cent. (the British Standards Institution give 2 per cent. for oil of turpentine, type I). The oil was found to contain a large amount of  $\alpha$ -pinene, identified by its nitroschloride, melting at 103°-104°. The resin had the following characters, which are compared with those of American turpentine resin:—

	<i>P. halepensis</i> resin	American resin
Melting point	Softens at 68°	Softens at 70° to 80°
Acid value	177.7	152 to 177
Ester value	4.7	Up to 30

Details are given of various Italian and Spanish oils from *Pinus halepensis*, the most interesting of which is that nearly all these samples are dextrorotatory, whereas the Cyprus oil is strongly levorotatory. According to Dupont, this

essential oil consists of about 95 per cent. of dextro- $\alpha$ -pinene, 1.1 per cent. of bornyl esters and 3.8 per cent. of sesquiterpenes. The figures for Spanish oils recorded by Lacrué are as follows: Specific gravity at 20°, 0.8561-0.8591; optical rotation,  $+40^\circ$  to  $+49^\circ$ ; refractive index, 1.4666 to 1.4699.

## New Products

"INDUSTRIAL and Engineering Chemistry" for January 1938 (pp. 7-14) describes the following various products which are the result of recent research:—

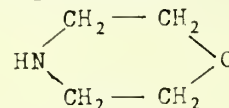
**Cyclohexylamine.**—"Santobane 100" is a new cyclohexylamine derivative which is effective against animal parasites such as fleas on dogs and lice on chickens. It is of special value in controlling red spider on roses and killing leafhoppers and thrips. (Monsanto Chemical Co.)

**Erythroidine** is a crystalline alkaloid with a curare action isolated from the seeds of *Erythrina Americana*, which differs from curare in being effective in oral administration. Clinical trials are being made in the treatment of Parkinson's disease and spastic paraplegia. The hydrochloride of the alkaloid ( $C_{16}H_{19}NO_3$ ) melts at 228-229° C. with decomposition. (Merck & Co. Inc.)

**Glycol-glycerol compounds** are new emulsifying and dispersing agents. "Polyrin" or glycol glycerol laurate is used for fluid emulsions of oils and waxes where soaps, amines, alkalies or inorganic salts are objectionable. "Glycoride" or glycol glycerol stearate is preferred for pastes. (Glyco Products Co.)

**Methacrylate compounds.**—Monomeric methyl methacrylate is a volatile liquid of low viscosity which is polymerised by the application of heat, light and oxygen. Polymerised methyl methacrylate resin (or "Lucite") is supplied as a cast resin in sheets, rods, and tubes and also as a thermoplastic moulding powder. All forms are available as a clear crystal product and in a wide variety of transparent, translucent, or opaque colours. The brilliant appearance of this new plastic is due to its ability to transmit light edgewise, thereby concentrating the illumination at the ends and edges. This and other (*n*-propyl, isobutyl and *n*-butyl) methacrylate resins are having a wide application in industry. (E. I. du Pont de Nemours & Co. Inc.)

**Morpholine** is a cyclic ether-amine (b.p., 128° C.) miscible with water and having the formula:—

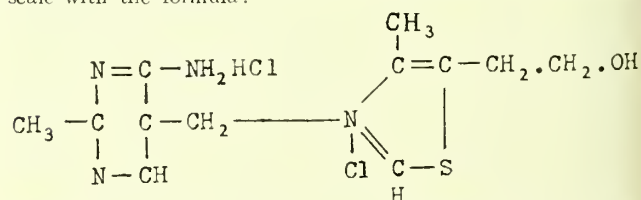


Morpholine is a mild base forming soaps with fatty acids which are excellent emulsifying agents for use in polishes, paints and lacquers. Being an ether and an amine it is a powerful solvent for resins, waxes and dyes. (Carbide and Carbon Chemicals Corp.)

**Octadecanediol** is a white waxy solid used in the preparation of cosmetics, creams, and as a wax substitute (for water and grease proofing) under the name of "Diolin." Octadecanediol diacetate or "Diolin A" is a clear odourless liquid used as a plasticiser.

**Pentothal Sodium** or sodium ethyl 1-methylbutyl thiobarbiturate is being used for short surgical operations owing to prompt production of sleep and remarkable recovery from anaesthetic effect. (Abbott Laboratories.)

**Vitamin B<sub>1</sub>** is now being made synthetically on a commercial scale with the formula:—



The synthetic product is a pure crystalline substance identical with natural vitamin B<sub>1</sub>. (Merck & Co. Inc.)



# Hermann Boerhaave

By William Kirkby, M.Sc., Ph.C.

TWO hundred years ago there died a physician whose influence upon the teaching and practice of medicine has probably never been excelled, but whose name is not perhaps so well known as some of those whose discoveries in medical and surgical science have been of a more spectacular character. During his lifetime his fame was world-wide; a letter from China addressed to "Mr. Boerhaave, Physician in Europe," reached him without any delay. On the death of Hermann Boerhaave in 1738 it was written of him that:—

"Long was he the oracle of his faculty and the physician of all Europe; never was preceptor more beloved, professor more celebrated, nor physician more consulted; he arrived to an eminence in all the several branches of medicine, had the glory of teaching them with equal applause, and the happiness of seeing himself admired without being obnoxious to the effects of envy or to any disparaging contradiction. . . . His sole authority without the support of arguments are admitted as decisive. He was not less successful in practice than learned in theory."

"He was a man of vast comprehension, profound judgment, prodigious memory, solid experience and unparalleled modesty."

He was, it is manifest, a man whose character was pervaded by an ardent simplicity, and this was the force which inspired him in the cultivation and practice and teaching of medical science together with the collateral sciences forming its buttresses.

Hermann Boerhaave was a son of the manse; he was born in 1668 at Voorhout, in Holland, a small village about two miles from Leyden. His father, James Boerhaave, who had a large family, was an excellent classical scholar with considerable scholastic ambitions for his sons. At the early age of fourteen Hermann was placed in the public school at Leyden, where he very quickly impressed his teachers with his exceptional ability. At that time it was his father's intention and his own desire to enter the Church. At sixteen he passed on to the University.

## Early Interest in Medicine

The range of his studies at Leyden from 1684, the date of his matriculation, to 1693, when he took a degree as doctor of physic, is remarkable. The Greek and Latin languages as well as the Hebrew and Chaldean tongues, rhetoric, geography, geometry, trigonometry, algebra, ancient and modern systems of philosophy, the primitive fathers, the Hippocratic writings and the works of the older physicians as well as the discoveries of the European anatomists, botany and chemistry provided the intellectual equipment for this young minister of the Church. The wide area of his knowledge was equalled by its profundity, as may be seen by his subsequent career. It was a curious incident whereby Boerhaave's path was diverted in the direction of becoming a physician. A chance argument between two people concerning the teachings of Spinoza and an interjected question by Boerhaave as to whether one of the disputants had read the writings

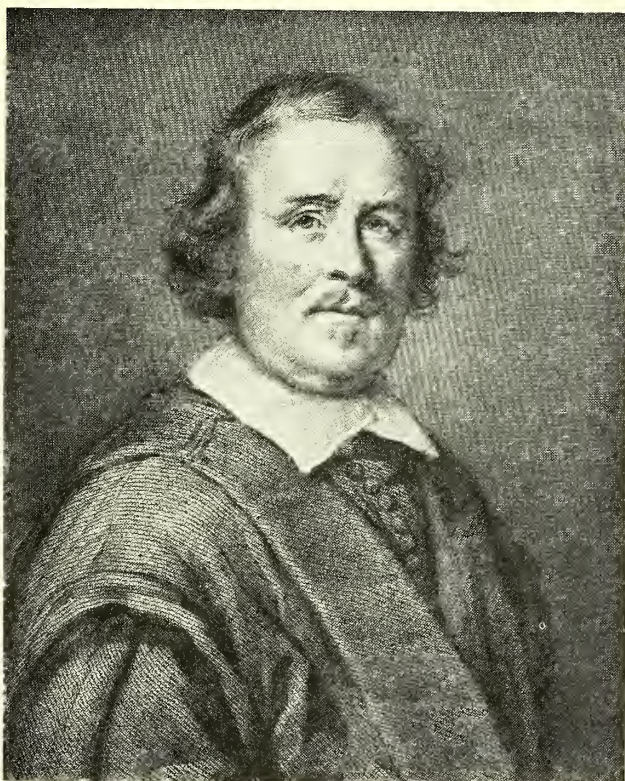
of that philosopher were the cause of his being slandered as a believer in the doctrines of Spinoza and therefore unfit to be accepted as a Christian teacher. Unwilling to run the risk of having his licence to preach being refused, and finding his chief friends to be of the opinion that it were better to avoid such a contretemps, he turned his attention to an intensive study of medicine and took up the practice of it. In 1701 he was induced to lecture in the University of Leyden on the Institutes of Physic in succession to Professor Drelincourt. Two years afterwards he was invited to become professor of physic at Groningen, but he preferred to remain at Leyden. Upon the death of Professor Hotten in 1709 he was elected to the joint

professorship of physic and botany in his own university. Part of his botanical duties consisted in the superintendence of the physic garden, for which his studies had well fitted him. His enthusiasm in this particular work was rewarded by the large number of new plants he procured; the garden was enlarged by him to twice its original size. Boerhaave's inaugural oration on the occasion of entering on his new office struck the keynote of his belief, aims and career. Its theme was the "simplicity of true medical science"; he dismissed the fallacies and extravagant claims of the alchemical and metaphysical writers, and reaffirmed the old foundations of trained observation and systematic experimentation upon which alone deductions should be based. "Simplicity" was the core of his being. He adopted as his motto "Simplex sigillum veri"; it was also the epitaph on his tomb.

While still a comparatively young man of forty-six, Boerhaave was elected to the highest dignity of the University as its Rector; in the same year—1714—he was appointed to the chair of practical physic in succession to Bidloo and took the opportunity of introducing what is regarded as the modern method of clinical instruction, thus testifying to the esteem in which he held the doctrines of Sydenham, whose works he much admired. The scope of his scientific activities was not even now limited, although it embraced all medicine and botany; for in 1718 he was chosen to succeed Le Mort in the professorship of chemistry. The fame of this great physician rested not alone upon his achievements as a medical practitioner whose advice was sought throughout the Continent, but was solidly based upon his eminence as a man of science. In 1728 he was elected into the French Academy of Sciences, and shortly afterwards, in 1730, he was unanimously chosen a Fellow of the Royal Society of London. During the last sixteen years of his life his work was considerably impeded by sickness; his death took place in 1738 after about a year of great suffering.

## Physician, Teacher and Pioneer

However brief may be the review one would like to make of the life of Hermann Boerhaave, there are four cardinal aspects of it demanding consideration. It does not suffice to write of his learning and his character. The former of these embraces three significant matters which need to be differentiated if we are to see our subject as the great man he was. He was a



*Dr. Hermann Boerhaave, from a portrait by Laighi*



physician whose claims to the first place in Europe were undisputed in his own lifetime, and he is recognised to-day as being one of the chief, if not the chief, leaders in the practice of modern medicine. When, as a young student, he read the Greek and Latin classics, he found in the teachings of Hippocrates the key to unlock the treasures of experimental medicine as well as of chemistry. He apprehended that Hippocrates was, as Dr. Brock has so well labelled him, a pragmatist. The appreciation of Sydenham's writings followed as a matter of course. It was well that for the most part his brethren and the public in general did not look upon him as a mere innovator. His sane and modest demeanour together with his benevolent disposition towards all men account for this unusual phenomenon. His influence in the domain of medicine in all matters of theory and practice, as well as in the relations he established with patients and professional brethren, placed him at the head of the noble profession. The second aspect of his learning which contributed so greatly to his eminence was the power he exercised as a teacher of physic, botany and chemistry. Students were found urgently eager to attend his classes, and it is said: "all the princes in Europe sent him disciples." Peter the Great became his pupil in 1715. As a school of medicine the University of Leyden, during Boerhaave's *régime*, drew men from every part of Europe, and many Englishmen and Scotsmen attended his lectures. Oliver Goldsmith thought it was proper "to go, though only to have it said we have studied in so famous a University." The University of Edinburgh owes a special debt of gratitude to the University of Leyden for the stimulus it received from that Continental seat of learning towards the establishment of its great school of medicine. Archibald Pitcairne had lectured on physic at Leyden, and returned to Edinburgh in 1693 ambitious of assisting in the founding of a school of medicine to rival the Batavian one. His enthusiasm infected others. In the next generation Alexander Monro (*secundus*), when about twenty years old, set out for Leyden to enrol himself in the classes of Boerhaave, of whom he "became the favourite and admiring pupil." From the time of Monro's return to Edinburgh and his appointment there as Professor of Anatomy may be dated the firm establishment of that famous school. He is celebrated as the founder of its fame, and entitled to be called the "Father of the Edinburgh Medical School." Such are illustrations of the power exerted by Boerhaave in the field of medical education. A third standpoint from which may be obtained a view of him as a man of learning is a consideration of the results he contributed to the general stock of knowledge. In the realm of medicine, according to Sir Clifford Allbutt, "his services to the progress of medicine were immense, and can hardly be over-rated. "His great task . . . was a synthesis of ancient and modern medicine." Boerhaave's writings were of a severely practical character. The best-known works are the *Institutiones Medicæ*, *Aphorismi de cognoscendis et curandis morbis*, *Libellus de Materia Medicâ*, and *Elementa Chemicâ*, all of which appeared in a number of editions and were translated into English. The literature of science was enriched by his publishing and editing the *Bible of Nature* by Jan Swammerdam and by his superb edition of the collected works of Vesalius.

### Observations in Chemistry

It is to Boerhaave we owe the first definite account of pyæmia, published in 1720; and it is almost certain that he was the first who saw urea, which, he says, in the second part of the *Elementa Chemicâ*, "crystallised out in saline globes of a particular kind that are perfectly distinct from every other salt, not fetid, not alkaline, but very evanescent, the native salt of urine." Among many other things to be found in his chemical writings are observations which are of distinctively recent character, such as the notes that compressed air prevents fermentation and that borax has antiseptic properties. His knowledge of chemistry and materia medica benefited perhaps in some degree from his association with Stam, who was an eminent chemist at Leyden and to whom he considered himself in some degree indebted, as appears from Burton's remark that Boerhaave endeavoured to make some return for Stam's kindness by particularly favouring Mr. Stam's son, who was an apothecary. Boerhaave was the first to make a chemical examination of urine, and to him we owe the modern idea of chemical affinity as that which holds together chemically dissimilar substances. His original views were made acceptable

in quarters which might not have been complacent had his character and demeanour been less beneficent in appearance. On some subjects such as the treatment of smallpox his ideas were quite at variance with the authorities of the day. Apparently he was before his time in using athletics as a means of maintaining good health. Moderation and simplicity ran through the whole of his teaching and practice, as appears from advice he gave to a wealthy Englishman as to how he should in the matter of rowing "combine healthy exercise with an carsman's skill." The patient must have been tremendously improved in both respects, one would imagine, for he presented his physician with a beautiful country house.

The well-known historian of medicine—Dr. Charles Singer—gives Boerhaave a prominent place in the roll of physicians. He says of him that we may see in "the 'new humanity' which came into public life in the eighteenth century the influence of that most humane of physicians, Hermann Boerhaave." Of him Dr. Singer also says that "taking one thing with another, considering his influence as a teacher, his clinical acumen, his power of inspiring younger workers, his wide learning, his balanced vision, his eagerness for new knowledge, his sanity, his humanity, his generosity, and his prophetic power, Boerhaave must be regarded as the greatest physician of modern times."

The character of this noble physician has been so well epitomised by an English physician of wide sympathies and of a so liberal disposition, the late Sir B. W. Richardson, that I cannot do better than repeat his tribute that to his distinctions as a physician and a scientist "he added goodness, sweetness of soul, simplicity of life in the lap of luxury, gentleness in the storm of persecution, versatility in the midst of industry. . . . His lamp was always burning, never flaming high; a guiding light steady as that of a polar star."

## Infantile Paralysis

IN view of the attention which is being focussed on a certain area in Essex following the occurrence of several cases of infantile paralysis, a few details of the nature and treatment of the disease will be of interest to pharmacists. Although not uncommon in adolescents and adults, infantile paralysis is usually confined to young children between the second and fourth years, after which age susceptibility declines. In this country it is during the summer months that the disease is most prevalent. Infection by the virus of the disease may be transmitted not only by those who have contracted the disease, but also by carriers, and it usually enters the body through the nasopharynx, passing through the olfactory nerve filaments to the brain. Two stages in the course of infantile paralysis are at present recognised—the preparalytic and the paralytic, and in all clinical forms the virus has actually reached the nerve cells where it is exerting its effects. The preparalytic stage may persist from one to five days, and is usually accompanied by a temperature of 103°-104°. The infected child may appear miserable, irritable and even flushed, and in serious cases breathing is more rapid. Fear and frightening dreams are often noticed in this stage, and the child may complain of headaches and pain or stiffness in the back. In the paralytic stage, paralysis does not usually appear until the second or third day in the case of children, but it may occur earlier in other persons—in most cases its development is very rapid. While any of the body muscles are likely to be affected, the muscles of the leg are more commonly involved. Spinal deformities follow paralysis of trunk muscles, and spinal curvature in children is often due to this cause. Many other forms of paralysis are known to occur as a result of the disease, including facial and ocular paralysis. Fatal results of the disease are more commonly associated with widely-spread paralysis involving the respiratory muscles. During the treatment of infantile paralysis rest is essential and the patient should be isolated and have a daily disinfection of the nose and throat. Aspirin and other salicylates appear to be in favour for reducing the temperature and discomfort, but morphine is frequently resorted to in serious cases. The earlier beliefs that serum therapy had some specific value are not now held, as recent investigations with human convalescent serum appear to have shown that this material has no appreciable influence on the course of the disease in the individual.



# Japanese Pyrethrum Report

(From our Kobe Correspondent)

THE following abstracts have been taken from a report at the end of June on the position of stocks of pyrethrum at Kobe and estimates of this year's crop.

The Fukuyama estimate of the carry-over (2,682 tons) has been questioned, but the most recent and exhaustive inquiries make it practically certain that it is not more than 3,000 tons. Prospects of this year's crop and the trend of the market are summarised as follows:—

## Quantity

The total yield will approximate 11,500 tons. One thousand tons should perhaps be deducted from this, as acreage is about 11 per cent. down, and it is not probable, therefore, that there will be a 6 per cent. increase in production figures as compared with last year. Still, weather conditions this year have been favourable, and there will undoubtedly be a proportionate increase in crop.

This year there is going to be an increase in the home consumption. With the big drop in the carry-over, a production figure practically the same as last year, and the demands of the home market, it is clear that the quantity of flowers available for the export market may be less than normal.

### Estimated Production

	1938		1937
Okayama	812	...	886
Hiroshima	2,214	...	2,115
Ehime	1,302	...	1,328
Kagawa	535	...	701
Wakayama	731	...	960
Yamaguchi	1,107	...	554
Hokkaido	4,185	...	3,838
Kyushu	553	(1937—Other Prefectures)	370
Tons	11,439	Tons	10,752

### Acreage

	1938		1937
Okayama	2,375	...	2,750
Hiroshima	6,025	...	5,500
Ehime	4,000	...	4,625
Kagawa	2,050	...	2,450
Wakayama	2,125	...	3,450
Yamaguchi	3,750	...	1,750
Hokkaido	40,337	...	48,750
Kyushu	2,000	(1937—Other Prefectures)	1,250
Acres	62,662	Acres	70,525

## Quality

There is little doubt that this year's flowers will be superior to those of 1937. The weather during the growing and flowering periods was distinctly favourable, and harvesting of the mainland began nearly a month earlier than usual, thus avoiding the rainy season proper, though doubtless rain fell in some places during the operations. But though the weather was unusually dry during the harvesting period, there has been a good deal of rain since, much of it being of the misty drizzle type. This has considerably retarded the drying, and the colour is not as good as was expected. The rain which fell subsequent to the harvest has not only protracted the drying period. Flowers which had been completely dried have re-absorbed moisture, and there is, of course, some danger of these flowers heating and fermenting. What has been here set forth, however, shows the worst side of the picture, and even taking the most unfavourable view of weather conditions prevailing during and after the harvest, there can be no doubt that the quality this year will be an improvement on that of last season. One sample of Wakayama flowers received gave by the Gnadinger test 1.08 per cent. total pyrethrins, while the moisture content was under 10 per cent. Not specially high, it may be remarked, but the Seil figures for these flowers would undoubtedly be higher, and the absence of ferment would ensure their maintaining their pyrethrin content for a lengthy period.

The following is a report on samples taken from 30 tons of new crop flowers at the end of June. They consisted of Kagawa, Hiroshima and Okayama flowers, proportions in the order named:—Kagawa.—All graded as second but very varied in quality. Hiroshima.—About 70 per cent. and 30 per cent. of third grades, with a few bags of outgrade. The grading was decidedly uneven, some classified as second grade being inferior to others marked third, the third grade likewise varying in appearance; some we should reject altogether. Okayama.—Relatively more of third grade than the Hiroshima lot, but the grading was much more uniform. General appearance.—That of an average year. Many flowers overblown, some overried and therefore the ray florets have become detached, making it possible in places to pick up a handful consisting almost entirely of the white florets. Again evidence of very inconsistent grading.

## Price

Undoubtedly the price trend this year will be upwards. The increased home consumption has already been mentioned, and other causes may be stated as:—

**Needs for Army Use.**—Factories here are working overtime to meet this demand, part of which comes from the Government and part from individuals wishing to contribute something to the safety and comfort of their friends overseas.

**New and Increasing Markets.**—The demand in Korea and Manchukuo for pyrethrum products grows amazingly, and this year it is expected that all records will be broken in these countries. Then in the parts of China already under Japanese control the demand is being stimulated, and there can be no doubt that this trade will account for a further large quantity of the present stock of flowers.

**Home Requirements.**—This, too, is creating an increased demand, as the Japanese are becoming more and more aware of the discomfort and danger of insect pests. All the big manufacturers put out their own fly-sprays, and supply extract to smaller concerns with which they in turn make similar lines. Moreover, druggists and other traders are now selling their own-name spray solutions, many of them merely an unstandardised extract made by maceration of a given weight of flowers.

At a recent meeting of one of the Pyrethrum Associations several speakers said in effect that, were the quantity of flowers available for this season double the actual amount, they would find a ready sale. It is this attitude, and the ever-increasing demand of the home and colonial markets, that supplies the reason for the continued rise in prices and the unwillingness on the part of the local dealers to offer. It is obvious, therefore, that present price-levels will easily be maintained; probably still higher prices will be reached by the end of the season.

The foregoing has not made any specific mention of the Hokkaido crop, but beyond the facts that the estimate is about 4,200 tons and that the crop is above average in quantity as compared with acreage, no further information will be available until the harvest, which may be expected towards the end of July. But it is practically certain that the quality this year will be good.

**Eire Chemical Imports.**—Eire trade returns for June show that the total imports of chemicals, drugs, perfumery, dyes and colours for the first half of 1938 totalled in value £579,580 as compared with £590,006 for the first six months of 1937. For the month of June itself these imports came to £121,813, while the figure for the previous June was £130,683. A marked increase in the value of medicines and medicinal preparations imported for the month is shown, the figures being £26,381 as against £20,084 for June, 1937. Perfumery and cosmetic imports were almost stationary at £3,340, compared with £3,215 for June of last year. The value of chemical manufactures and products imported came to £15,938, a considerable decrease on the figure for June, 1937, which was £21,110. Disinfectants to the value of £3,591 came into Eire in June, while the imports for the same month last year totalled £4,462. On the export side of the returns, Eire is shown as having exported drugs, medicines and preparations to the value of £218, but no indication of the class of drugs or medicines or the country of destination is given.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, July 28

WITH THE APPROACH of the peak of the holiday season the markets have taken on a quieter tone, the business moving being chiefly of a routine character. Foreign exchange rates are keeping steady at the recent improvement on the £. There is no change of importance in PHARMACEUTICAL CHEMICALS to comment upon and business continues rather quiet. A moderate volume of business in CRUDE DRUGS is reported in the home market and the Continental demand for some products has again been quite a feature. AGAR has sold steadily on spot. The demand for CURAÇAO ALOES is sustained on spot and stocks are reported to be running out; the shipment market is firm at high figures. Some descriptions of CARDAMOMS are steadier. The much firmer conditions noted last week in the shipment market for CASCARA SAGRADA are fully maintained and the few offers on hand are at a further advance. DESICCATED COCONUT is slightly easier forward. Portuguese shippers report a failure of the ERGOT crop, due, it is stated, to the dry weather; the shipment market is very firm at the moment. Polish ERGOT, however, is offered at cheaper figures. Japanese MENTHOL has been in quiet demand, with the market closing steady. PEPPERS show a fractional advance on the week. Pimento, following the recent sharp advances, is easier. RUBBER has fluctuated daily, closing sharply dearer on the week. Practically no stocks of SENEGA available on spot. SHELLAC shows a slight loss on the week. New crop Madras finger TURMERIC is again rather easier for shipment. WAXES are steady but in quiet demand. Business in ESSENTIAL OILS has been on the quiet side and some products are quoted keenly. Spot values for ANISE (STAR) are quite steady on a limited supply. BERGAMOT remains dull. Japanese and Chinese CAMPHOR OILS are dearer on spot and in small supply. Sicilian hand-pressed LEMON is dull and rather easier for shipment. LEMONGRASS is fully steady forward. OLIVE is again rather dearer and reported firm. French Guinea ORANGE remains dull and drums on spot are offered at keen prices. Japanese PEPPERMINT has been in quieter demand, but the limited spot stocks are quoted steadily and the shipment market shows no signs of weakening. SPEARMINT is steady at the recent advance.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	July 21	July 28
Amsterdam ...	Fls. to £	12·107	8·94½	8·95
Berlin ...	Mks. to £	20·43	12·23	12·24
Brussels ...	Belgas to £	nominal	29·08	29·09
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110½	110½
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	93½	93½
Montreal ...	Dols. to £	4·86½	4·93½	4·93½
New York ...	Dols. to £	nominal	4·91½	4·92½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	178½	178½
Prague ...	Kr. to £	164·25	142½	142½
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	26	26
Zurich ...	Frs. to £	25·2115	21·48	21·48

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

TRADE continues on quiet lines, with no outstanding change in quotations to report. Ephedrine hydrochloride, B.P., continues in good inquiry.

ACETANILIDE.—Quotations are steady: B.P. crystals and powder, 7s. 7d. to 1s. 10½d. per lb., as to quantity.

AMIDOPYRINE.—Dealers' quotations competitive: crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—One cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10d., in 8-oz. tins, and 2s. 1d. per lb. in 4-oz. tins.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of

12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Quiet demand, market competitive: two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d., ex store, London.

BENZOIC ACID (B.P.).—Makers' prices continue steady: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. up to 2s. 2d. per lb., as to quantity.

BORAX (B.P.).—Makers' prices steady: granulated, £24; crystals, £25; powdered, £25 10s.; extra fine powder, £26 per ton, in one-cwt. bags, carriage paid buyers' works for minimum 1-ton lots. Extra for smaller quantities. Commercial quality, £8 per ton less for all descriptions.

BORIC ACID (B.P.).—Makers' prices continue steady: granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyers' works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure alkaloid, two cwt., 8s. 10d.; one cwt., 9s. 0½d.; 56 lb., 9s. 2½d.; less than 56 lb., 9s. 4½d. per lb. Citrate, two cwt., 5s. 11½d.; one cwt., 6s. 0½d.; 56 lb., 6s. 1½d.; less than 56 lb., 6s. 2½d. per lb. Soda sal., two cwt., 6s. 2½d.; one cwt., 6s. 3d.; 56 lb., 6s. 4½d.; less than 56 lb., 6s. 5½d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d.

CALCIUM LACTATE.—Demand has been limited, quoted unchanged: one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2d.; smaller quantities up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Home makers' scale of prices steady: duty paid crystals in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb., 28-lb. jars one penny per lb. extra.

CHLOROFORM.—Makers' prices steady: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums ½d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. per lb. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Steady, with fair business reported: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Continues at former figures, market steady: British material, 99 to 100 per cent., 1s. 1½d. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CRESOTE (B.P.).—Business remains quiet: bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7½d. up to 2s. per lb., ex store.

EPHEDRINE.—Consumers of the hydrochloride, B.P., are making good inquiry, with makers' prices for minimum 1,000 lots at 6s. and up to 7s. per oz. for smaller parcels. Pure, alkaloid, is quoted at about 7s. 9d. to 8s. 6d. per oz., as to quantity.

GALIC ACID.—Quiet demand, market steady: one cwt., 3s.; 56 lb., 3s. 1d.; smaller quantities, up to 3s. 6d. per lb., ex store.

IODIDES.—Makers' prices for the salts continue at the advances recently recorded. POTASSIUM, B.P.—Not less than 1 cwt., 5s. 3d.; not less than 28 lb., 5s. 6d.; not less than 14 lb., 5s. 9d.; not less than 7 lb., 6s. 3d.; not less than 4 lb., 6s. 9d.; smaller quantities, 7s. 3d. per lb. SODIUM, B.P.—Not less than 28 lb., 6s. 6d.; not less than 14 lb., 6s. 10d.; not less than 7 lb., 7s. 4d.; not less than 4 lb., 8s.; smaller quantities, 8s. 10d. per lb. IODINE, B.P., RESUBLIMED.—Not less than 1 cwt., 5s. 9d.; not less than 28 lb., 6s.; not less than 14 lb., 6s. 3d.; not less than 7 lb., 6s. 9d.; not less than 4 lb., 7s. 5d.; smaller quantities, 8s. 2d. per lb. IODOFORM, B.P., CRYST., PRECIP. or POWDER.—Not less than 28 lb., 8s. 3d.; not less than 14 lb., 8s. 7d.; not less than 7 lb., 9s. 3d.; not less than 4 lb., 10s. 1d.; smaller quantities, 10s. 11d. per lb. Contracts for 1 cwt. and upwards (assorted if required) with fall clause, for delivery as required during four months. 28-lb. tins and 1-cwt. cases free. All bottles are charged, but will be



credited in full if returned, carriage paid, in good condition within three months. Carriage paid on any quantity. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices or terms below the scale for any such quantity current at the time the resale is made. The previous alteration in prices was on August 9, 1937.

GLYCERIN (B.P.).—Makers' prices for home are unchanged:—

Price per cwt.

Contracts or Spot Lots of	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
Tins, 14 lb. each per cwt.	102/6	98/-	97/-	94/-	93/-	89/-
Tins, 28 lb. " "	99/6	95/6	94/6	91/6	90/6	86/6
Tins, 56 lb. " "	96/6	93/-	92/-	89/-	88/-	84/-
Drums, 1 cwt. (charged 20/-) " "	—	88/6	87/6	84/6	83/6	79/6
Drums, 2½ cwt. ( " 60/-) " "	—	—	85/6	82/6	81/6	77/6
Drums, 5 cwt. ( " 75/-) " "	—	—	—	82/-	81/-	77/-
Drums, 10 cwt. ( " 100/-) " "	—	—	—	—	80/6	76/6
Extra per cwt. for smaller deliveries ex contract than as above specified	5 cwt. and under 10 cwt. ...	—	—	—	—	—
	2 cwt. and under 5 cwt. ...	—	—	—	—	6d.
	1 cwt. and under 2 cwt. ...	—	—	—	6d.	1/-
	Under 1 cwt. ...	1/-	1/-	1/-	1/6	2/-

Refined Pale Straw Industrial Glycerin. 1.260 S.G. 5/- per cwt. less than chemically pure.

LACTIC ACID (B.P.).—Steady, limited business: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. up to 2s. per lb., as to quantity.

METHYL SALICYLATE.—Quoted steadily, limited inquiry: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

PHENACETIN.—A limited business, quotations steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7½d. up to 3s. per lb., as to quantity.

PHENAZONE.—Dull and unsteady on quotation: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb. in free 1-lb. bottles. CHLORQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s.; 1 lb., 12s. 6d. per lb., bottles free. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt., 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENYL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST.).—5 cwt., 12s. 6d. per cwt., 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHIDE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydrophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

SALICYLIC ACID (B.P.).—Market quiet, quoted steadily: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 1s. 0½d.; 4 lb., 2s. 2½d. per lb.

SALOL.—Continues dull, with crystals quoted from 2s. 1d. to 2s. 6d. per lb., as to quantity. Powder, 2½d. per lb. extra.

SANTONIN.—Business is reported to be of small account, with bulk quantities at about £10 5s. per kilo. Small quantities up to £11 10s. per kilo., ex store.

SODIUM SALICYLATE (B.P.).—Makers' prices are maintained, business seems quiet: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10½d.; 7 lb., 1s. 11½d.; 1 lb., 2s. 4d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Fair seasonal business continues: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

## Crude Drugs, etc.

AGAR.—Spot business good and demand from the Continent is sustained: spot, Kobe, No. 1, 3s. 1½d. to 3s. 3d.; No. 2, 2s. 11d. Yokohama, No. 1, 2s. 10d. per lb.; shipment, August-September, Kobe, No. 1, 2s. 10d. to 2s. 11d.; No. 2, 2s. 7½d. Yokohama, No. 1, 2s. 8d. per lb., c.i.f.

ALOES.—There is still a steady spot demand for Curaçao at advancing prices, and stocks are running out. Shipment market firm, with bids of about 140s., c.i.f., refused. Cape steady: Cape, spot, 60s. to 62s.; shipment, about 57s. 6d. per cwt., c.i.f. Curaçao, spot, now quoted from 156s. to 175s. per cwt., as to quality. Shipment, from 150s. upwards per cwt., c.i.f.

ANTIMONY.—Market continues steady: Chinese, crude, spot, £35; shipment, August-September, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

BUCHU.—A few bales reported cleared: spot, new crop rounds, 1s. 6d. to 1s. 7½d., as to quality. Shipment, bids of 1s. 4½d. would probably be accepted. Old crop rounds on spot at slightly cheaper prices.

CAMPHOR.—Market is attracting but little business: Japanese monopoly, BB brand, £7 10s. per 100 lb.; this price now officially quoted; Japanese, natural, spot, tablets, 2s. 6½d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 11½d.; slabs, 1s. 11½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and 1 oz., 3s. 6d. per lb.

CANTHARIDES.—Occasional spot inquiry: Russian, about 4s. 6d.; Chinese, spot, 2s. to 2s. 2d. per lb., as to quantity; shipment, 1s. 7d. per lb., c.i.f.

CARDAMOMS.—Rather steadier conditions are reported: Aleppy, green, spot, about 2s. 6d.; shipment, 1s. 11d. for f.a.q. and 1s. 3d. for f.a.q. the season. Aleppy, seed, spot, 3s. 7d.; shipment, 2s. 9d., c.i.f. Mangalore seed, spot, 3s. 4½d.; shipment, 2s. 7d. per lb., c.i.f.

CASCARA SAGRADA.—The sharply firmer conditions reported last week are well maintained in the shipment market. This week there have been very few offers and the price is indicated at 44s. per cwt., c.i.f., with no business for this market at this figure. Some 1937 bark at 48s., c.i.f. The source states all new crop bark now in and practically all sold, which is rather surprising. Spot values are dearer on account of the firmer forward conditions. Spot, 1936 peel, 58s. 6d.; 1937 peel, 55s. per cwt., ex store.

CHAMOMILES.—Business of small account. Last season's best quality, about 165s.; with seconds at 135s. per cwt. Old flowers from 95s. to 107s. 6d. per cwt., ex store.

CLOVES.—Rather quiet, values maintained: Zanzibar, spot, 8½d.; shipment, August-September, 8½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, August-September, 7d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended July 23 were *nil*, and the deliveries *nil*, leaving a stock of 1,462. From January 1 to date the landings of Zanzibar have been 1,904, and the deliveries 1,511. Landings of Madagascar for the week ended July 23 were *nil*, and the deliveries *nil*, leaving a stock of 1,374. From January 1 to date the landings of Madagascar have been 1,131 and the deliveries 1,833 packages.

COCONUT (DESICCATED).—Slightly easier forward, market quiet: spot, fine, 17s. 6d.; medium, 17s. 6d. per cwt.; shipment, halves, August, 15s. 9d.; October-November, 16s. 3d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market remains dull, but about steady: Finest Lofoten steam refined, non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K. with rebates for 25 or more drums.

ERGOT.—The position of new crop Portuguese for shipment continues firm. It is reported that, on account of the dry season, the crop is substantially a failure, and shippers will not make offers; they suggest with a bid of 5s. 6d. to 5s. 9d., c.i.f., in hand they may be able to secure limited quantities. One or two parcels of old crop Portuguese offered at 5s. 6d., c.i.f., transshipment from Hamburg. Meanwhile new crop Polish is being offered at lower figures, the latest being at 3s. 10½d. to 4s., c.i.f., and the samples are reported upon favourably. No Russian offered, and spot stocks of all descriptions are stated to be negligible.

GAMBOGE.—Market remains quiet: good Siam pipe quoted at about £13 10s. per cwt., duty paid.

GENTIAN.—Business of small account: good clean French root, 32s. 6d.; shipment, new crop, 27s., c.i.f.; Continental, 32s. per cwt., ex store, as to quantity.

GUM ACACIA.—The recent firmer tone is not being maintained: Kordofan, cleaned sorts, spot, 38s.; shipment, 36s. 3d. per cwt., c.i.f.

Exports from the Sudan during May, 1938, amounted to 2,440 tons, compared with 2,413 tons in May, 1937. Shipments during January-May, 1938, totalled 13,062 tons, compared with 12,230 tons in the corresponding period of 1937.

HENBANE.—Dealers' prices are steady: 70s. to 72s. 6d. per cwt., as to quantity.

HENNA.—Continues firm and in very short supply: Egyptian, brown leaves, from 32s. 6d.; green leaves, if available, about 40s. per cwt., ex store.



**HONEY.**—The usual off-season quietness continues, with quotations about steady: new crop Jamaican quoted from 29s. for dark manufacturing up to 45s. for pale set. Californian, duty paid, 52s. 6d. Canadian, 55s., ex store.

**HYDRASTIS.**—Values continue steady; limited business: spot, 2,3 hydrastin, 14s. 9d. to 15s.; U.S.P., 14s. 6d. to 14s. 9d.; and untested, 14s. to 14s. 3d.; shipment, U.S.P., 14s. 3d. per lb., c.i.f. if available.

**MENTHOL.**—The Japanese product has had a quiet week of business: spot, K/S brands, 13s. 1½d. to 13s. 3d.; shipment, September, 11s. 6d. per lb., c.i.f. Chinese, spot, 12s. 9d., with no shipment offers. French manufacture is quoted from 12s. per lb., duty paid, in cases of six 5-lb. tins.

**MERCURY.**—First-hand distributors of Spanish-Italian report there is no change in the shipment price at 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

**OPTUM.**—Market is quiet: Turkish, original cases of 170 lb., 13 per cent., 1s. 1d.; Iranian, 12 per cent., 1s. 1d. per unit, landed and duty paid.

**PEPPER.**—At the slightly better values the market closes steadier: Lampung, in bond, 2½d.; shipment, August-October, 2½d.; October, December, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 33s., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 33s. 6d., c.i.f. White Muntok, in bond, 4d.; shipment, August-October, 3½d., c.i.f. London Terminal Market: Black, August, 2½d.; October, 2½d.; White, July, 4d.; October, 4½d.; December, 4½d. per lb.

**PIMENTO.**—The market has eased following recent sharp advances: spot, 8½d. per lb.; shipment, August-September, 75s. per cwt., c.i.f.

**RHUBARB.**—Very little doing in this article at the moment: Shensi, best quality, 4s. 6d. to 5s.; old, very slightly wormy, 3s. 9d. to 4s. Rough round, 2s. to 2s. 2d. per lb., as to quality; shipment, 1s. 5½d. per lb., c.i.f.

**RUBBER.**—Values advanced well early in the week, but later weakened, recovering sharply at the close. Fair business: standard ribbed smoked sheet, spot, 7½d.; August, 7½d.; September, 7½d.; October-December, 7½d.; January-March, 8½d. per lb.

**SEEDS.**—ANISE.—Spot, duty paid, Spanish, 59s.; Bulgarian, 39s.; Syrian, 38s. CANARY.—Spot, all prices quoted are duty paid. Mazagan, 17s. 9d.; Turkish, 16s. 3d.; Plate, 15s. 9d.; Spanish, 25s. to 37s. 6d.—CARAWAY.—Dutch, on spot, 34s., duty paid; 28s. 9d. f.o.b. Holland. CORIANDER.—Old crop Morocco on spot is worth 19s., duty paid; new crop is offered at 18s., spot, duty paid. CUMIN.—Spot, Malta, 47s. 6d., duty free; Morocco, 47s. 6d., duty paid, and 44s., in bond. New crop for shipment is firm at 50s., c.i.f. FENUGREEK.—Morocco old crop on spot, 13s., duty paid. It is reported that the new crop is of very poor quality and the price quoted is 9s., c.i.f. MUSTARD.—English, 18s. 6d. to 29s., according to quality.

**SENEGA.**—Spot stocks are difficult to locate: spot, 2s. to 2s. 1½d.; shipment, July-September, 1s. 8½d. per lb., c.i.f.

**SENNA.**—All descriptions are quoted unchanged on a rather quiet market. Tinnevely: Fair green quality offers as follows: No. 1 at 5½d., No. 2 at 3½d., No. 3 at 2½d., No. 4 at 2½d. per lb., ex wharf London. Good bold leaves are scarce, but a month or two must elapse before the new crop becomes available on this market. Tinnevely: Best pale quality offer at 6d. per lb., with darker descriptions available at 3½d. to 4d. per lb., ex store. Hand-picked: Finest bold hand-picked pods continue scarce, and small lots are offered at 5s. per lb., No. 1 at 4s., No. 2 at 3s., No. 3 at 2s. 3d. per lb., with old crop pods offered at 1s. to 2s. per lb., ex wharf.

**SHELLAC.**—Slightly easier with fair business reported: spot, standard TN orange, 41s. to 44s.; fine orange, 55s. to 80s.; pure button, 50s. to 52s. per cwt. For delivery, TN, August, 40s.; October, 41s. 6d.; December, 41s. 6d. For arrival, TN, August-September, 41s. per cwt., c.i.f.

**TRAGACANTH.**—Values are keeping about steady for all grades of gum with a limited inquiry being dealt with: finest selected white ribbon, 66s; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £42s. 10d.; amber leaf, £22; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

**TURMERIC.**—The shipment market for new crop Madras finger is a trifle easier at about 26s. 6d. per cwt., c.i.f. Spot, about 28s. per cwt.

**WAXES.**—BEES'.—Values are about steady, business modest: Calcutta, bleached, spot, 125s.; shipment, August-September, 117s. 6d., c.i.f.; ordinary quality, spot, 95s.; shipment, August-September, 92s. per cwt., c.i.f.; Benguella, in bond, 90s.; shipment, August-September, 86s., c.i.f. Conakry, spot, 100s.; shipment, August-September, 87s. 6d., c.i.f. Dar-es-Salaam, spot, 97s. 6d.; shipment, August-September, 92s. 6d., c.i.f. CARNAUBA.—Continues quiet with quoted values unchanged: fatty, grey, spot, 152s. 6d.; afloat, 147s. 6d.; shipment, August-September, 146s., c.i.f. Chalky, grey, spot, 152s. 6d.; afloat, 146s.; shipment, August-September, 144s., c.i.f. Primeira, spot, good quality, 190s.; f.a.q.; 185s.; afloat, 177s. 6d.; shipment, August-September, 175s., c.i.f. Mediana, spot, 180s.; shipment, 170s. per cwt., c.i.f.

## Essential and Expressed Oils, etc.

THERE has been no improvement in demand during the past week. Quoted values are, however, keeping fairly steady. Sicilian lemon is rather easier forward. Japanese peppermint is steady but quiet.

**ANISE (STAR).**—Spot position continues fully steady; shipment offers for August-September only: spot, leads, nominal; tins, 3s. 9d. to 3s. 10d.; drums, 3s. 7d. per lb., ex store; shipment, tins, 3s. 2½d.; drums, 3s. 2d. per lb., c.i.f.

**AVOCADO PEAR.**—Quiet demand; dealers' prices steady: Californian oil quoted from 46s. 6d. to 53s. per gallon, as to quantity, ex store.

**BERGAMOT.**—Market remains quiet. Consortium price is unchanged at 14s. 9d. per lb., c.i.f., for bulk quantities. Genuine new crop oil on spot is steady at 15s. to 15s. 6d. per lb., as to quantity, with old and blended oils at cheaper prices.

**CAMPOR.**—Market is again dearer and supplies are now very limited: Japanese and Chinese white oils at about 110s. per cwt., in drums; shipment, Japanese, very few offers, nominal at 90s., c.i.f. No Chinese offered.

**CASSIA.**—Business slack: spot, good quality oil, 3s. 1½d. to 3s. 2d., in leads; off-quality, about 3s. per lb. Shipment market remains slack; leads, 2s. 10d.; drums, about 2s. 8½d. per lb., c.i.f.

**CLOVE.**—Spot demand quiet; shipment market easy: Madagascar, spot, drums, 2s. 9d.; repacked in small parcels, 3s. to 3s. 3d. English, distilled, 4s. 6d. up to 4s. 10½d. per lb., as to quantity.

**EUCALYPTUS.**—Limited shipment inquiry, quotations for bulk quantities keen: Australian, 70 to 75 per cent., tins, 1s. 4½d. to 1s. 5d.; drums, 1s. 4d.; 80 to 85 per cent., drums, 1s. 9d. per lb., ex store; higher prices for small lots on spot; shipment, 70 to 75 per cent., tins, 1s. 2½d.; drums, 1s. 2d.; 80 to 85 per cent., 1s. 6d. per lb., c.i.f.

**LEMON.**—The market for Sicilian hand-pressed oil is dull and easier. Business has been particularly quiet for the time of year. Shipment, about 10s. 3d. to 10s. 6d. per lb., c.i.f. Spot quotations vary as to quality of the oil, but genuine new crop would be about 10s. 9d. to 11s. 3d. per lb., with blended oils at cheaper figures. Californian distilled oil meets with a moderate demand at 6s. 4d. per lb., in small drums, landed. Sicilian, machine-made, 10s. 2d., c.i.f.

**LEMONGRASS.**—The shipment market is keeping steady: with July-August, 1s. 4½d.; August-September, 1s. 5½d. per lb., c.i.f. Spot, 1s. 8d. to 2s., as to quantity.

**LIME.**—West Indian distilled on spot is selling steadily with quoted rates of 21s. to 22s. per lb., ex store, with a moderate demand reported.

**OLIVE.**—Firm conditions continue at the further slight advance. Edible, two 5-gallon tins, 73s.; ten 1-gallon tins, 76s. 6d.; twenty ½-gallon tins, 80s. 6d., packed in cases, 50-gallon drums, 6s. 1½d. per gallon, ex store.

**ORANGE.**—Spot business in French Guinea oil remains poor with competition keen; shipment market dull: spot, drums, 2s. 10½d.; and repacked oil, in tins, at about 3s. 2d. to 3s. 4½d. per lb., ex store. Shipment from the source is mentioned at about 2s. 5d., c.i.f., with no interest shown. Oil in bond is available at about the same figure. Californian is steady: spot, one case, 3s. 7½d.; two or more cases, 3s. 5d.; large drums, not quoted; small drums, 3s. 4d. per lb., landed; cold-pressed, 5s. 3d., c.i.f., in cases.

**PALMAROSA.**—Market remains dull: spot quoted about 8s. to 8s. 1½d. for original packages; shipment, 7s. 2d. per lb., c.i.f.

**PATCHOULI.**—Occasional small spot inquiry: Singapore, spot, about 13s. 6d. to 13s. 9d.; shipment, 12s. 7½d. per lb., c.i.f. Seychelles, spot, 11s.; shipment, 10s. 1½d. per lb., c.i.f.

**PEPPERMINT.**—The Japanese product has met with a quiet demand, but supplies are very low. It is estimated that during the past month 300 to 400 cases have been sold to consumers. Spot, 4s. 10d. to 4s. 11d.; shipment, only September offered at 4s. 6d. per lb., c.i.f. American natural oil, in drums, is fully steady. Quoted from 2 dollars 25 cents to 2 dollars 35 cents per lb., c.i.f.

**PETITGRAIN.**—Quotations are steadier, moderate inquiry: cases at about 3s. 9d. up to 3s. 11d. per lb.; shipment, 3s. 1½d. to 3s. 2d. per lb., c.i.f. French oil is offering to come forward at 600 francs per kilo, landed, in bulk quantities.

**SANDALWOOD.**—Genuine East Indian Mysore, in one-case lots, continues steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 3d. to 18s. 6d. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

**SASSAFRAS.**—Dealers report small business: good quality oils selling at up to 4s. 1½d.; other oils, from 3s. 6d. per lb., ex store.

**SPEARMINT.**—Values are keeping steady: U.S.P. oil, spot, 9s. to 9s. 3d.; shipment, 8s. 4½d. per lb., c.i.f., in cases.

**SPIKE.**—Market has been quiet: genuine Spanish oil steady at 5s. 6d. to 5s. 9d. per lb., with many offers of oil at cheaper prices.

**WORMSEED.**—Limited inquiry, market steady: U.S.P. oil, spot, 11s. 4½d. to 11s. 6d.; shipment, 10s. 10d. per lb., c.i.f., in bulk quantities.



## English Herb Crop Reports

The following reports on this season's herb crops have been received:—

**Potter & Clarke, Ltd.,** report:—Owing to the cold spring, late frosts and absence of rain, crops will be light or patchy. The quality of the herbs, however, will be extremely good.

Good crops.—HYSSOP, HOREHOUND, BURNET SAXIFRAGE, WORMWOOD, CLIVERS, COMFREY. We are cultivating MELLILOT HERB this year, and it is doing well.

Fair crops.—SOUTHERNWOOD, MULLEIN, RUE, CLARY SAGE, BORAGE, FENNEL, BURDOCK.

Crop a failure.—Plants have practically disappeared—BELLADONNA and MOTHERWORT.

DANDELION ROOTS—quality good and cleaner this year. CHAMOMILES—crop is late and result rather doubtful. During the last few days, however, the crop has benefited considerably owing to the rain, and will probably be normal before it is ready for picking. POPPY HEADS—best for several years if only the weather comes in their favour. CULINARY HERBS—Mint—medium crop, likely to improve before second cutting. Tarragon and Thyme—a failure. Marjoram—moderate. Parsley—only fair, but likely to improve before cutting in September. Sage—first cutting light, but autumn gathering promises well.

**William Ransom & Son, Ltd.,** report:—

BELLADONNA.—This is our chief crop. It was cut down by the severe frosts in the late spring after being very forward in March. It has now been harvested and, though late, was an average crop. The young plantation is growing well and there should be a good crop in the autumn.

HENBANE.—The second biennial was not affected by the frosts and was harvested before the belladonna. It was a good crop. The first year crop is patchy and requires rain.

LAVENDER.—This crop will be late, the spring shoots being killed by the frosts in May. The weather between now and when cut in the middle of August decides the yield. This year's plantation is well established.

CHAMOMILES.—We find very little demand for the oil, and have further reduced our acreage. Average yield.

PEPPERMINT.—It is early to give the prospects of this crop. It appears healthy and free from rust, and should be a good crop. As with lavender, the yield depends on the weather conditions just prior to cutting.

FOXGLOVE.—A very poor crop. A large percentage was killed by the late frosts after weathering the winter well.

HEMLOCK.—This was a good crop and exceptionally early. This crop usually takes two years before flowering, but this year it has flowered the first year.

ACONITE, LETTUCE, SQUIRTING CUCUMBER, PYRETHRUM and VALERIAN should be average crops.

**Stafford Allen & Sons, Ltd.,** report:—Conditions have been difficult this year, owing to the dry spring and the late frosts which were experienced.

ACONITE NAPELLUS.—The roots this year will be on the small side.

BELLADONNA.—Suffered from the late frosts but on the whole has made a good recovery. Leaf and herb of normal quality have been collected.

CHAMOMILES.—Flowers this season will be small, and the yield of oil per acre will be a low one, through lack of sufficient rain.

DIGITALIS.—Second year plantation suffered from frost, and flowering spikes were only about half their usual height. First year plants are growing well, and should turn out satisfactorily.

DILL.—The crop is looking fair, but considerably shorter in stalk than usual. The harvest will probably be early.

HENBANE.—Second year plants came through the winter well, but the plants are much shorter than usual. Good quality flowering tops and leaves have been collected and dried.

LAVENDER.—This promises well, and has not been much affected by the late frosts; the good rains we had in June have been very useful.

PEPPERMINT.—Has not as much growth as usual, and we think the yield will be on the low side unless we have a good deal more rain. The plantations are healthy.

PYRETHRUM.—Has been up to the normal, and the weather was good for the flowering and gathering period.

VALERIAN.—This crop will be about normal.

## Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

### Clinics and Shops

SIR,—I was glad to read the note by Xrayser on the above subject in last week's issue of the *C. & D.* (p. 74), but I think he is not quite correct in stating, or implying, that wealthy "workers" drive up to local clinics and go away bearing "spoils of war"—at the public expense. What happens, usually, is that such people can either purchase foods and other articles at the clinic at a lower rate than they would pay at the pharmacist's, or can get chits enabling them to buy special "welfare" packages, again at a cheaper rate. Foods are given away at the clinics or supplied by the pharmacist on an order paid for by the authority only to people who have undergone some sort of means test to prove that they are really too poor to pay even the reduced rates, and I am not aware that opportunities are given to any except the deserving. The real danger to pharmacy and pharmacists is the increasing number of middle-class mothers who attend the clinics and are thus enabled to get cheaper foods for their babies than they would otherwise purchase. One public authority, when sending out its rate notices, encloses a note asking the recipient, if there is a baby in the family, to avail herself of the welfare service, implying, what is of course true, that such can be enjoyed by every suitable ratepayer, irrespective of income. It is true that one or two firms supply their foods and other articles only through the chemist, so that he gets some of the business, but his profit margin is smaller than on the standard packs, and he loses not only on the rate of profit but on the volume of business as well.

Yours faithfully,

AJAX.

SIR,—In considering the possibility of users of clinics being able to accumulate stocks (*C. & D.*, July 16, p. 50), we need to know what class of goods are involved. Are they drugs or foods supplied at the clinic or are they obtained, on a signed order, from the local chemist? Where foods are supplied by the chemist on a signed order, the orders are sometimes endorsed with the words "For four weeks," probably to save further attendance during this time, and the chemist should keep a record of the dates of supply, but this practice obviously offers a loophole for evasion.

Yours faithfully,

CLINICIAN.

### Medical Affairs and the Pharmacist

SIR,—Whilst advocating the inauguration of a medical service which would cover the greater part of the population, doctors are complaining that the hospital system of accepting patients, under which they become subscribers by paying a small amount weekly, is depriving practitioners of much work which might otherwise come to them. In some instances, they argue, there is no income limit for subscribers, and people take advantage of the scheme who could well afford to pay a private doctor. The two attitudes do not seem to correspond. It may also be noted that the second principle of the plan is to provide every individual with a doctor of his own choice, and the presidential address at the B.M.A. meeting held at Plymouth envisaged extending the system of National Health Insurance to dependants of insured persons and others (*C. & D.*, July 23, p. 81). These pronouncements leave us in doubt whether the same limit of income would be fixed as under the N.H.I. Acts, or whether there would be no definite limit. The most important question is how all this medical treatment would be paid for. A question on this point, asked in the House, brought the reply of an estimated amount of £10,000,000 per annum, but the wording of the B.M.A. plan seems to imply that their scheme is intended to go further than this. I have seen no mention of any part for the pharmacist in all this. Is there any indication that he would still be expected to be the dispenser to the nation? If so, will the work be offered at the present tariff rates, with the prospect of further discounting?

Yours faithfully,

"NATIONALITE."



## Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

**D. O. S. (25/7).—METCHNIKOFF'S OINTMENT.**—This ointment has been used for the treatment of baker's dermatitis, and contains 33 per cent. of subchloride of mercury in anhydrous lanolin. It is directed to be applied freely, rubbed well into the affected area and covered to exclude air.

**F. R. (25/7).—LIQUID DRY SHAMPOO.**—The following will probably be suitable for your purpose:—

I	
Soft soap .. .. .	75 gm.
Industrial spirit .. .. .	500 c.c.
Strong solution of ammonia .. .. .	5 c.c.
Distilled water .. .. .	500 c.c.
Perfume .. .. .	a sufficiency

II	
Potassium carbonate .. .. .	12 oz.
Water .. .. .	2 gall.
Industrial spirit .. .. .	3 gall.
Synthetic violet .. .. .	1 oz.
Dry extract of quassia .. .. .	1 oz.
Saponin .. .. .	2 dr.

III	
Strong solution of ammonia .. .. .	3ss.
Oil of bitter almond .. .. .	3j.
Eau de Cologne .. .. .	3j.
Tincture of quillaia (1 in 20) .. .. .	3x.

**J. H. C. (25/7).—BLACKHEAD IN TURKEYS.**—This subject is fully dealt with in "Veterinary Counter Practice," ninth edition, and the following information taken from this publication will probably be of interest to you:—

"The arsenic present in arspenamine diglucoside is much less toxic than ordinary arsenic, and when injected quickly circulates through the system, destroys the infecting organism and is then rapidly eliminated in the excreta. The period of immunisation after injection varies from six weeks to twelve months . . . The best time to give this preventive dose is when the chicks are four to five weeks old. Old birds, although subject to blackhead, do not always die, and after a while recover and appear normal. Nevertheless, they are carriers and pollute the ground with their excreta, so that when chicks are hatched they may contract the disease from the contaminated surroundings. It is therefore advisable to inoculate the stock birds prior to breeding. The suggested dose is 1.5 c.c. . . . Treatment consists of the intravenous or intramuscular injection of solution of arspenamine diglucoside. . . . Once blackhead has been diagnosed on a farm the flock should be carefully watched, and directly the birds are found to lag behind, lose their appetite or have yellow droppings, they should be separated and injected. After the birds have received treatment they should be kept on new ground apart from the rest of the flock." . . . The following dosage table is based on the work of various authorities:—

Age of bird	Arsphenamine solution
1 week .. .. .	0.1 c.c.
2 to 3 weeks .. .. .	0.2 c.c.
4 weeks .. .. .	0.3 c.c.
5 weeks .. .. .	0.4 c.c.
6 weeks .. .. .	0.5 c.c.
7 weeks .. .. .	0.6 c.c.
8 weeks .. .. .	0.8 c.c.
9 to 15 weeks .. .. .	1.0 c.c.
15 weeks onward .. .. .	1.0-1.5 c.c.

**J. C. H. (25/7).—CLEANING ENGRAVINGS.**—When the prints are valuable, no amateur should try to clean them; only those who have thorough knowledge of the various processes should tackle this difficult problem. One method is by using solution of chlorinated lime diluted with an equal amount of water. Soak the print in cold water in a shallow dish; then pour on the face and back the above mixture, when all stains will be removed and the print bleached quite white. Finally, wash the print in cold, clear water. An alternative method consists in prolonged immersion of the print in a weak solution of hydrogen peroxide rendered alkaline by the addition of a few drops of solution of ammonia.

**P. C. L. (25/7).—NOISES IN THE EAR.**—This condition, which is known as tinnitus aurium, may be due to several causes, such as neurasthenia, anæmia, variations in blood pressure, inflammation of the middle ear or wax in the ear. It is sometimes produced by drugs, such as quinine and salicylates. In all cases it is advisable for the patient to have a medical examination. In the early stages of the disease, much benefit has been found to follow the administration of salicylates and iodides, but it is stated that the condition is more affected by bromides than by any other drug, and these are given in doses of from ten to twenty grains, twice or three times a day. Tincture of belladonna, in doses of from five to ten minims, sometimes increases the effect of the bromide. It should be noted that in many cases the noises in the ear persist in spite of all treatment.

**L. B. (22/7).—PERFUME FOR SMOKE CARTRIDGES.**—We think that the most practical method would be the addition of a small amount of an alcoholic solution of an essential oil such as sandalwood oil or lemongrass oil. Alternatively, you might use small quantities of the following powders:—

I	
Olibanum .. .. .	7 oz.
Benzoin .. .. .	2 oz.
Cascarilla .. .. .	1 oz.

II	
Olibanum .. .. .	4 oz.
Thus .. .. .	4 oz.
Benzoin .. .. .	4 oz.
Tolu .. .. .	4 oz.
Storax .. .. .	2 oz.

**A. L. P. (26/7).—STORE-ROOM INSECTS.**—The insects you submitted consist of two kinds. The bright golden-brown insect was *Niptus hololeucus* and the darker reddish-brown one was *Ptinus tectus*. Both these belong to the same family, the *Ptinidæ*. These insects feed on all kinds of vegetable matter, though it is not supposed that they were feeding on the straw in which they were found, but were more likely to have been sheltering in it. *Niptus* exists on the general debris that collects under floors and skirtings, and seldom reaches pest proportions unless there is a considerable accumulation of material of the nature of grain or oatmeal. *Ptinus*, on the other hand, may be quite a serious pest, and because of its rapid breeding can multiply very quickly. It is an introduced insect and has accommodated itself to our climate.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," July 28, 1888

### The Drug Trade of Great Britain

Considering the number and variety of articles comprised in the drug business, it will probably be a surprise to many people to hear that the whole of our foreign trade in drugs proper, including all crude drugs, quicksilver, opium, cinchona, gum arabic, liquorice, wax and essential oils, and all pharmaceutical preparations, embraces scarcely 1 per cent. of the total volume of the nation's trade; while, even if to this inner circle we add the more or less connected branches of trade, such as drysalteries, heavy chemicals, spices, dyestuffs and fixed oils, the total only amounts to 5 per cent. of our entire imports and 4½ per cent. of our exports. This fact, however, rather shows the vastness of the whole of our foreign trade than the smallness of our drug business, for it is practically certain that no other country in the world has so large a drug trade as our own. The United States, probably, would rank next to ourselves, but even they are a good way behind this country. The statistics which we publish in another part of this issue throw an interesting light on the fluctuations of our shipments of purely pharmaceutical articles and chemicals to our principal foreign and colonial customers.

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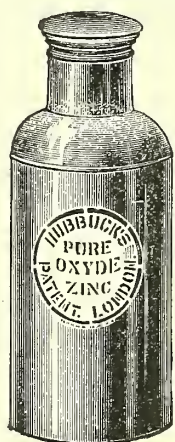
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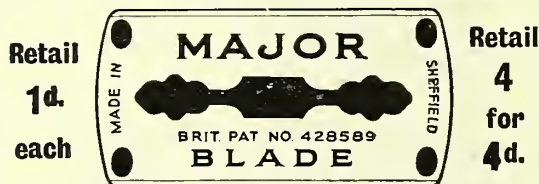
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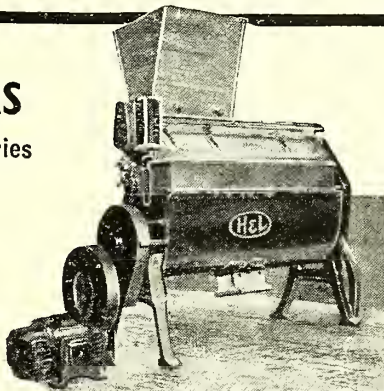
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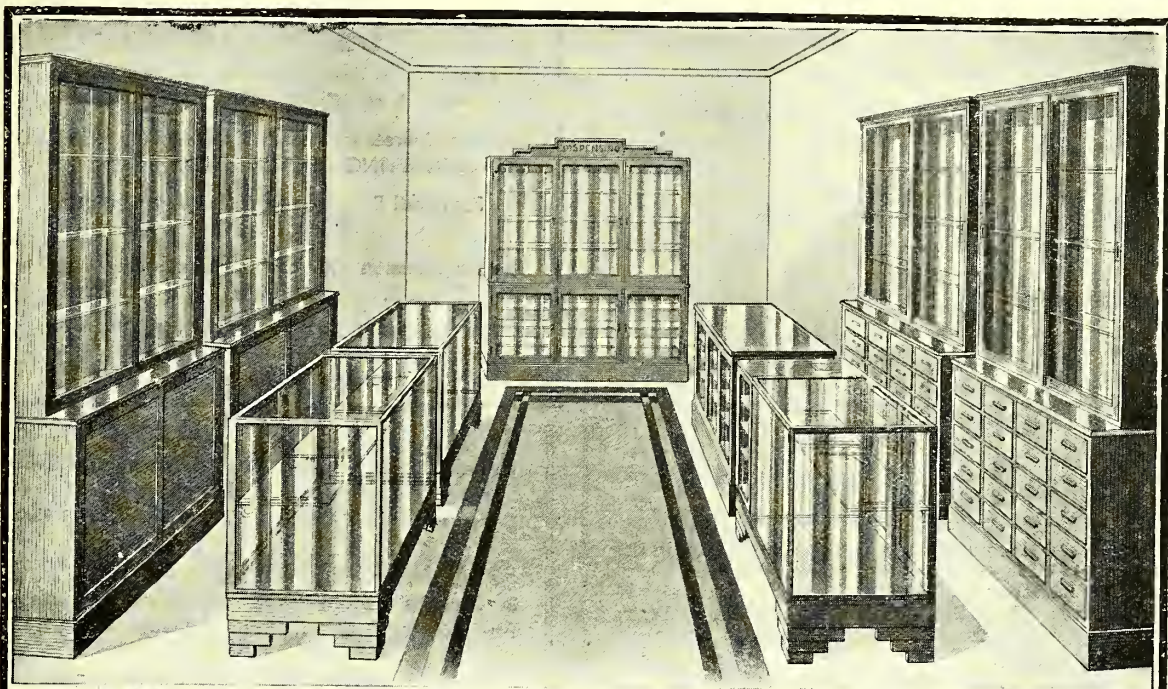
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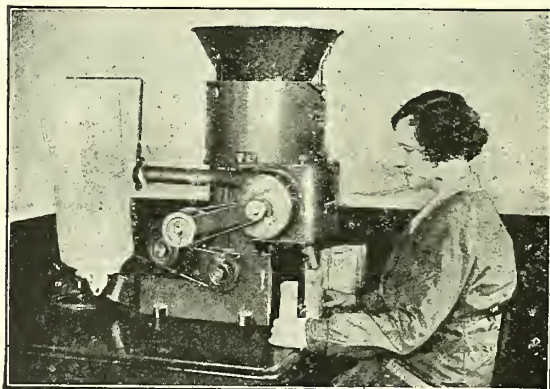
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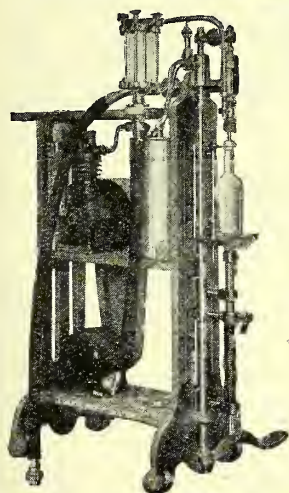
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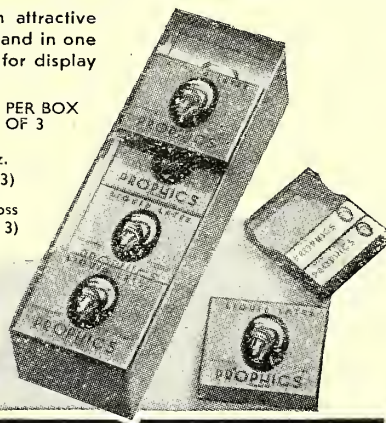
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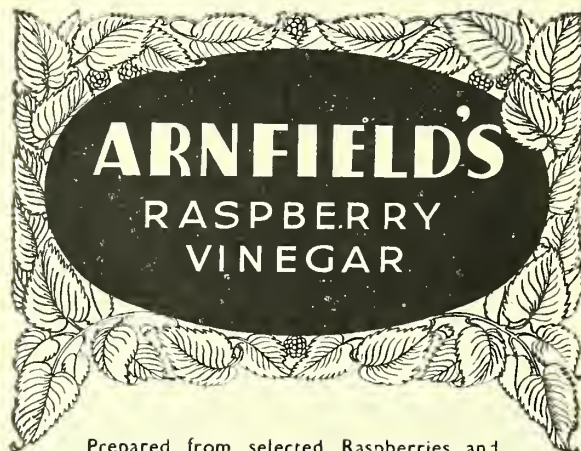
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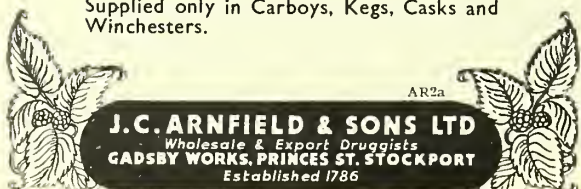
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3.—**MOOR PARK (NEAR).**—Good Middle-class General Retail Business for sale owing to family reasons; turnover £2,000 per annum; scope to do £3,000; beautifully fitted pharmacy, well stocked; inclusive purchase price required £1,550.

4.—**EALING (NEAR).**—Family Retail Business for sale; increasing turnover, last year £1,300; net profit £350 approximately; rent only £10 per annum; rates £31; long lease; inclusive purchase price £650, or near offer; early sale desired; vendor bought another business.

5.—**HAMPSTEAD (NEAR).**—Main-road Good-class Cash Retail Business; valuable Agencies; turnover about £40 per week under management; rent of shop about £100 per annum; good, clean, saleable stock; attractive fixtures; Vendor would probably accept about £100 for the Goodwill plus the stock and fixtures at valuation, in all about £900-£1,000; a small sum down will be accepted and the remainder over a period.

6.—**LONDON, NORTH WEST.**—High-class Business with Dispensing, etc.; old established; turnover well over £4,300 per annum; very low rental; minimum inclusive purchase price £3,000; full particulars upon receipt of banker's reference; excellent stock.

7.—**HARRINGAY.**—Well-established Middle-class Business for sale; increasing turnover, last year under management £1,660; G.P. £664; excellent living accommodation; stock and fixtures worth £650; reasonable purchase price asked; part payment terms entertained, £300 cash down; further details upon application.

8.—**PLAISTOW (NEAR).**—Cash Drug Store showing a net profit of approximately £300 per annum; proper books kept; rent of shop only £25 per annum; attractive fixtures and good, clean, saleable stock; sacrifice price £400; excellent opportunity for young qualified pharmacist.

9.—**SOUTHEND-ON-SEA (NEAR).**—High-class Retail Business; takings for last completed year over £3,400; stock worth over £1,100; attractive fixtures; reasonable rent and advantageous sublet; inclusive purchase price £2,500 or near; vendor buying another business in Wales.

10.—**READING.**—Owing to the decease of Mr. Herbert Dyson, his Good-class General Retail Business is for immediate disposal; turnover

about £2,700 per annum; full particulars upon application; new lease; sole agents; price for goodwill about £150 or near; must be sold forthwith.

11.—**BRIGHTON.**—Good-class Chemist Retail Business; old established; takings for last completed financial year £1,830; excellent living accommodation; fair stock; price about £850 all at; takings have been £6,000 per annum; immediate sale desired.

12.—**KENT.**—Ill-health necessitates the early sale of a General Retail Business with an increasing turnover; takings this year £1,750; stock £600-£700; fixtures £175; modern living accommodation; new lease; inclusive purchase price £1,000, or near offer.

13.—**STREATHAM.**—Main Road Cash Retail Business for disposal at sacrifice price; no sum required for the goodwill; takings average over £60 per week at good prices; stock and fixtures worth a figure in the neighbourhood of £1,000; accountant's figures available; full particulars upon application.

14.—**CHELMSFORD.**—General Retail Business in excellent position; takings this year £2,300; gross profit nearly 40 per cent.; rent £150; inclusive purchase price required £1,650; dissolution of partnership; net profit about £600 per annum to managing proprietor.

15.—**YORKS (WEST RIDING).**—Exceptional opportunity for young man; Middle-class Business; well-established; takings last year £1,863; stock and fixtures worth £450; rent £30 per annum; inclusive purchase price asked £500 or valuation terms entertained.

16.—**SURREY.**—General Retail Business taking about £3,000 per annum; valuable lease; excellent fixtures; heavy stock; increasing turnover; genuine reason for sale; inclusive purchase price about £1,800 or near.

17.—**EXETER (NEAR).**—Country Retail Business; turnover last year £850; N.P. £275; old-established; purchase price, including premises, £1,350; stock worth about £300; ill-health necessitates immediate sale.

18.—**GLOUCESTERSHIRE (RETIREMENT VACANCY).**—Country Retail Business; very nice house and garden; low rental; net profit over £300 per annum; inclusive purchase price £775; quick sale desired.

19.—**SLOUGH.**—Branch Business; takings last year over £1,000; good profits; stock and fixtures £240; rent £52 per annum; purchase price required £325, or near offer.

20.—**STRATFORD, E.**—General Retail Business in busy marketing thoroughfare; returns for last completed financial year £1,860; gross profit £624; net profit approaches £400 per annum; rent only £65 per annum; inclusive purchase price asked £1,100.

## Chemists' Transfers, Valuations for Sale, Stocktaking & Probate, Sales by Auction

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants



# ERNEST J. GEORGE & Co.

**Bank Chambers, 329 High Holborn, London,**  
 Telephone Nos.: Holborn 7406 & 7407 (2 lines) **W.O.1**  
**County Bldgs., Bridge St., Walsall** Telephone: **Walsall 3774**

**Lancashire and District Representative: Mr. E. B. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405**

(Cr) SURREY.—Ideal situation on main road; well-fitted shop in dark oak, with sight-testing room and flat over; turnover at present £1,900; purchase price for quick sale £1,150; Accountant's figures available.

(C2) CHESHIRE.—Recently established business, which has to be disposed of owing to ill-health; takings approximately £18 per week; well-fitted Pharmacy in light oak, with good living accommodation and garden; rent £65 per annum; price £485, representing value of stock and fixtures only.

(C3) LONDON, S.W.—Old-established business in good position on main road; turnover approximately £1,500; well supported by local doctors; rent £110, which is quite reasonable for the locality; price asked £950, or reasonably near offer.

(C4) BRIGHTON.—Neglected business which has recently been run as a drug store; capable of expansion under qualified proprietorship; £145 all-at will be accepted for a quick sale.

(C5) FINCHLEY (NEAR).—Good-class business established over 30 years; turnover approximately £2,700 per annum; gross profit about 41 per cent.; net rental £110 only; contemplated alterations in the near vicinity should benefit the business considerably when completed; genuine reason for selling; price £1,850 all at.

(C6) RAYNES PARK (NEAR).—Attractive main-road business occupying prominent position in middle-class residential suburb, near to leading multiples; turnover for 1936-37, £2,847; gross profit £1,080; net to owner-proprietor, £600-£700; rent £220, including up-to-date flat; lease 17 years; price £1,300, plus stock at valuation (estimated at £480).

(C7) ST. PANCRAS.—Must be sold forthwith, and any offer considered either for cash or on part payment terms; certified net profit for last financial year £325; rent £80 inclusive; genuine reason for selling; full particulars upon application.

(C8) BUCKS.—Middle- and working-class business with good D. and P.; turnover for 1936-37, £1,162; premises occupy corner position on main road; rent £75; no near opposition; goodwill and fixtures £450; stock at valuation (estimated at £260).

(C9) ASHFORD (NEAR).—Established 2½ years; turnover now approximately £1,000; good living accommodation available with separate side entrance; freehold may be purchased for £1,800, which represents a very good investment, or lease will be granted; purchase price £400, which includes nothing for goodwill.

(C10) CLAPHAM (NEAR).—Exceptional opportunity for enterprising chemist to acquire spacious lock-up Pharmacy, with very extensive frontage; excellent position; now doing at the rate of about £1,800 per annum; for a quick sale owner will accept very low figure of £800; £550 down and balance over a period.

**Valuations for transfer, probate, income tax, etc., promptly executed at economical rates**

## BERDOE & FISH

**CHEMISTS' VALUERS AND TRANSFER AGENTS,**

**41 Argyle Square, KING'S CROSS, W.C.1**

(One minute from St. Pancras and King's Cross Stations.)

1. LANCAS COAST.—Light cash Retail, in good position; returns £1,850, at good profit, books audited; large corner shop; price £1,050, including full season's stock.

2. GLOS (MARKET TOWN).—Well-established light Retail; returns £1,100, under elderly owner; rent £60; good house and garden; price £200, plus valuation of stock and fixtures.

3. DAGENHAM (near).—Very profitable Cash Retail, with good panel; returns £1,900 under manager; scope for increase; good house, garden and garage; price £800 or valuation terms.

4. NORTH MIDLANDS.—Light Retail Business, in market town; returns £1,620; net profit £350; stock and fixtures worth approximately £700; price £750; worth attention.

5. HERTS.—Good-class Business in busy town; main road position; returns over £1,400; scope for increase; modern Pharmacy, fully stocked; price £925 or near offer.

6. BRADFORD (near).—Profitable Light Retail, neglected, was doing £1,300; present returns about £750; low rent; owner retiring; price £550 or valuation, stock reduced to suit purchaser.

7. SURREY (SUBURB).—Middle-class Business, easily run; takings about £1,000, plenty of scope; low rent, long lease; corner shop; well stocked; price £400.

8. HACKNEY (near).—Well-established Business in main road position; turnover exceeds £2,000; gross profit 35 per cent.; books audited; modern Pharmacy; stock worth £300-£400; owner, for quick sale, will accept £300, plus stock at valuation.

9. NORTH LONDON.—Genuine Cash Drug Store; under female management; turnover about £800; fine chance for Chemist; good stock; price £275 or offer.

10. LONDON, W.—Old established Family Retail Business; very profitable; returns nearly £1,100; low overheads; valuable lease; owner retiring; price £525; worth attention.

11. ST. PANCRAS (near).—Profitable Cash Retail, with N.H.I.; no immediate opposition; returns over £1,100, net profit £350; audited figures; price only £300.

### LOWEST TERMS FOR STOCKTAKING

Estab. 1870.

Telephone: Terminus 3574.

(C11) BEXHILL-ON-SEA (RETIREMENT VACANCY).—Good-class family and dispensing business; turnover upwards of £1,200 per annum; net profit about £340; rent £45; price by negotiation.

(C12) GOOD CLASS SEASIDE RESORT (NEAR CHICHESTER).—For sale owing to retirement; turnover for 1937, £1,507; net profit £309; rent £70, including living accommodation; 25-year lease; price by negotiation.

(C13) LANCs (SEASIDE).—Good family and dispensing business; turnover for last financial year £3,740; net profit £750; rent £100; excellent private house also for sale; price of business £2,000, including stock £800 and fixtures £200.

(C14) SUSSEX (MARKET TOWN).—Increasing business with remunerative delivery service; turnover for 1936-37 financial year, £2,623; gross profit about 35 per cent.; rent £65 inclusive; lock-up shop; price £1,700 or near offer.

(C15) BERKSHIRE.—Present returns approximately £2,000 per annum under management; good scope with personal attention; rent £100, including small house with garden and garage; lease 21 years; stock estimated at £700; fixtures £250; price £1,250 all-at; owner will, if necessary, accept £800 down and the balance by arrangement.

(C16) LONDON, N.W.—Recently established business, now taking about £40 weekly, and steadily increasing; situated in very important position, at present under management; the trade carried out is entirely for cash, with large proportion of high-class sales; purchase price £850, or near offer.

(C17) BRIGHTON.—Established 15 years; turnover now approximately £2,550, with gross profit of £900 per annum; situated in main shopping thoroughfare, with good private dispensing connexion; purchase price by negotiation.

(C18) ENFIELD.—Good-class business, with no near opposition; owner must sell immediately as he is waiting to take up a position and is prepared to dispose of a big sacrifice; turnover approximately £1,300 per annum; excellent modern flat; stock and fixtures estimated at £500; price all-at for immediate transaction £525.

(C19) BEXLEY HEATH (NEAR).—Branch business, excellently fitted, and of attractive appearance; turnover for 1937, £1,499; gross profit £515; up-to-date flat; stock and fixtures estimated at £800; price £850-£950, part of which could remain.

(C20) LONDON, E.C.4.—City business offering genuine scope for increase over present returns, which for the last financial year amounted to £2,032; the business closes at 1 p.m. on Saturday, and there is no Sunday duty; authentic reason for selling, which we can substantiate, and as a quick disposal is required, the very low figure of £650 all-at will be accepted; reasonable offers also considered; early enquiry advised.

## THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(Business Agency, Transfer & Valuation Department)

KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS,

Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.

PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).

VALUATIONS, SALES OF BUSINESSES. STOCKTAKINGS.

Enquiries Invited.

## BUSINESSES FOR DISPOSAL

BLACKBURN.—For Sale, a good business, established over 50 years, on main road; good living accommodation; rent £65 a year; Kodak agency; good N.H.I.; business increasing; owner retiring. T. W. Livesey, 36 Grimshaw Park, Blackburn, Lancs.

LANCS.—Old-established business; light Retail, Prescribing and Dispensing; well situated in centre of main street; worked at present under very adverse conditions; present returns approaching £800, have been over £1,100; rent and rates total £76; living accommodation if desired; about £450 required, for which full value is offered. 245/2, Office of this Paper.

LANCS SEASIDE RESORT.—Dissolution Partnership; business must be sold quickly; exceptional opportunity occurs to acquire good business, centrally situated busy thoroughfare; bargain price, below valuation of stock and fixtures; best offer accepted; turnover averaged £35 per week for last three years; good profits; established ten years. Apply, Griffiths, Accountants, Southport.

MANCHESTER (Suburb).—Attractive double-fronted shop, main road; good Family business; turnover £1,750, steadily increasing; good prospects; only genuine buyers need apply. 247/2, Office of this Paper.

SURREY.—Good progressive business for early disposal (middle-class trade); nice locality (average takings £1,600); good living accommodation, garden, garage, etc.; long lease; might suit experienced lady; optics an advantage; only genuine buyers entertained; owner retiring; first good offer; stock at valuation. 246/27, Office of this Paper.

A SMALL mixed Retail and Drug business in a village, with house, garden and orchard, for disposal; in present hands several years; failing health reason for disposal; a good opportunity for anyone interested in Photography. 246/30, Office of this Paper.

EAST LONDON.—Dea lines; net profit takings average about £200; comfortable living sold forthwith; in sam chase price £200, plus on application. App.

S.E. LONDON.—O N.H.I. and En usual Agencies; assu accommodation and/or low all-at figure upon a cause of sale. 246/25

BUSINESS for Sale; residential district veniences, etc.; low around £185. 246/3

FOR SALE.—Fine co Iford; nice class plus N.H.I.; very well £400, but owing to s for quick sale. 551/12

PROGRESSIVE Chem and Photo, Reta overhead expenses; Ins posal; double-fronted Hargreaves, Chartered available.

£300.—NORTHER overhairs; populated area and no Ucal Agencies; good 241/1, Office of this P

## BUSIN

A CHEMIST wants t Drug Store, which a genuine business is vestigation. All replies Office of this Paper.

## PREN

STRETTFORD.—New S living accommoda station; excellent open Wood, 26 King Street

A GENCY required for and Hospitals, fo ested at once if I in considered on part e 9 years with present 289/28, Office of this

## REPUTABLE SW

would like to get in smaller factory in Er It is planned to man well known and mu Chemicals, Antilu tions, Catgut, Plast propriatory preparat References will be r additional capital is

VERY old-established ness both with Je Pharmaceutical Goods, etc. Managing Direct Co. (London), Ltd., 2

## THE Director

Belvedere J vites tenders fo 4,200 lbs. Bis Subnitras and Teuders due At Forms of tender (which will not

## SITU

BIRMINGHAM.—Qua ing-class district for same branch; Apc Reply, stating salary immediately. 246/8,



its business, with side  
about £5 per week;  
very profitable busi-  
ness; new lease; must be  
half a century; pur-  
chase £300. Full particulars  
of this Paper.

Pharmacy; good  
stocked and fitted (in-  
kitchen, Tanks, etc.);  
man; excellent living  
rental; details and  
arranged; illness genuine  
or.

Unopposed position in  
flat over and con-  
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per.

Residential part of  
takings £20 per week,  
fitted; a bargain at  
possession is open to offer  
or.

heavy N.H.I., Toilet  
connexion; very low  
genuine reason for dis-  
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## NOTED

Class, moderately-priced  
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## LET

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## OPTICAL WORKS

Medical House or  
factory output.  
Some preparations  
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Surgical Instruments,  
Reply to Mackinlay &  
C.I.

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50 lbs. Bismuth  
licylics (all B.P.).  
above at a fee

## PEN

er required for work-  
also capable Dispenser  
rred but not essential.  
applicants answered

**BRADFORD (suburb).**—Qualified Manager required for branch  
shop; under 30. State usual particulars, salary required.  
246/9, Office of this Paper.

**BRISTOL.**—Qualified Assistant capable of Management. Apply,  
with usual particulars, salary required and when free, 239/7,  
Office of this Paper.

**BRISTOL.**—Wanted, immediately if possible, Qualified Chemist  
(lady or gentleman). Apply, stating full particulars in first  
letter, of experience, age, etc.; permanency, salary £4. Forward  
copies of references, also photograph if possible. 246/2, Office  
of this Paper.

**KENSINGTON.**—Required early in September, reliable Un-  
qualified male with experience of high-class business; smart  
appearance and address essential; knowledge of leading Beauty  
Preparations an advantage. Particulars of experience and salary  
required to 246/22, Office of this Paper.

**LONDON.**—Qualified Assistant required; must be honest, oblig-  
ing and able to take charge of branch (small); easy position  
for competent Assistant. Apply with full particulars re experi-  
ence, references, etc., to 246/13, Office of this Paper.

**LONDON, W.**—Unqualified Assistant (Male) required; Dispensing  
and Counter; permanency. Please send full particulars with  
salary required; applications not answered in four days respect-  
fully declined. 244/3, Office of this Paper.

**LONDON, W.1.**—Qualified Assistant wanted; good appearance;  
good Salesman and Dispenser. Apply with full particulars  
giving age, height, salary required; enclose photo if possible.  
246/24, Office of this Paper.

**MANCHESTER.**—Qualified Assistant; Light Retail and Dispens-  
ing. Apply, with full particulars, to 331/118, Office of  
this Paper.

**OXFORD.**—Unqualified Assistant required for good-class Dispens-  
ing business. Send fullest particulars of all experience, to-  
gether with photo. State age and when free, Bellamy's, Dispensing  
Chemists, 194 Banbury Road.

**SOUTH COAST.**—Capable Unqualified Assistant, male, required;  
accustomed to good-class Dispensing and Counterwork;  
permanency. Apply, giving full particulars of experience, age,  
height and salary required, 246/14, Office of this Paper.

**SURREY.**—Occurring shortly, a vacancy for Qualified Lady, good  
Saleswoman and Dispenser; comfortable situation for suit-  
able applicant. State experience and salary in first letter.  
246/270, Office of this Paper.

**AN** Assistant, young Lady or Gentleman, for good-class Agricul-  
tural business. Apply, with full particulars, to C. Wass,  
Holbeach, Lincs.

**AT ONCE.**—Unqualified Assistant (25 to 35); country district;  
permanency if suitable. Full particulars to Palmer & Son,  
Chemists, Ramsey, Huntingdon.

**ASSISTANT.** Unqualified (20-25), good-class Dispensing busi-  
ness for Counter and Dispensing. Full particulars experi-  
ence, etc., to H. B. Sharman, 31 Green Lane, Northwood, Middx.

**COMFORTABLE** indoor berth for 2 weeks, offered to satisfactory  
Assistant (Qualified or Unqualified) not under 23, whilst  
permanent assistant takes holidays; country business, within easy  
reach of seaside. State full particulars and when at liberty,  
J. Keeble, Chemist, Halesworth, Suffolk.

**ENERGETIC** Qualified Chemist-Optician required at once to take  
sole charge of new branch near Edmonton; excellent pros-  
pects for the right man. Apply, stating full details, to Adver-  
tiser, 7 Woodward Avenue, Hendon, N.W.4.

**EXPERIENCED** Lady Assistant required for Chemist's shop in  
Guildford, able to Dispense and take charge of Surgical  
Counter; permanency to capable woman. Write 331/116, Office  
of this Paper.

**JUNIOR** Unqualified Assistant, Lady or Gentleman, required  
August 8. Please state full particulars of experience, age,  
height and salary required, etc. Also Junior Unqualified Assistant  
required for October 3. Enclose photo if possible. Apply, Black-  
lock & Co., Chemists, The Square, Bournemouth.

**LADY** Assistant Dispenser wanted (under 23), experienced in  
routine of Doctor's Surgery; Hall Qualification. Apply,  
B. G. C. B., 2 Union Place, Wisbech.

**MANAGER.** at once, for small branch. Full details to A.  
Wilson, Ltd.; Regent Street, Blyth, Northumberland.

**PART-TIME** Qualified Chemist wanted for evening work in  
London shop; time by arrangement. State details. 331/120,  
Office of this Paper.

**PART-TIME** Qualified, for S.E. London; evenings 6 till 8 (or as  
arranged); usual middle-class Retail. Please state age, wages,  
etc., to 246/370, Office of this Paper.

**PHARMACIST.**—Qualified man required to manage small subur-  
ban branch; must be good Dispenser and able to develop  
family type business. Apply in writing, giving fullest particulars  
and salary required, also enclosing copy references to The  
Secretary, City of Bradford Co-operative Society, Ltd., 25 South-  
gate, Bradford, not later than August 1, 1938. Endorse  
"Chemist."

### PHARMACY.

**QUALIFIED** Male Assistant required for holiday relief.  
Unqualified Female Assistant required. Widows  
and single persons only considered. Apply in writing,  
stating age and experience, to the Staff Manager, Royal  
Arsenal Co-operative Society, Ltd., 113 Powis Street,  
Woolwich, S.E.18. Endorse envelope "Pharmacy Male,"  
or "Pharmacy Female" as the case may be. NOTE.—  
Canvassing of members of the General Committee or  
Officials will disqualify.

**QUALIFIED** Assistant (lady) required immediately; permanency.  
State age, experience and salary required; photograph if  
possible. 246/36, Office of this Paper.

**QUALIFIED** Experienced Assistant required for City Pharmacy.  
Apply "A," 331/111, Office of this Paper.

**QUALIFIED** Lady or Gentleman, young; permanency; medium  
class business; full particulars of age, experience, salary re-  
quired, and when disengaged, Mitchell, Chemist, 6-8 Lewisham  
Road, Lewisham.

**QUALIFIED** Male Assistant required by high-class Chemist by  
August 13; permanent. Phone Malden 0092, Mathews,  
Bank Pharmacy, Malden Road, New Malden, Surrey.

**QUALIFIED** Pharmacy Assistant (Male or Female), must be  
good Counter hand, able to take charge occasionally; quick  
Dispenser, fully experienced Toilets, Photographic and Window  
Display. Salary £4 15s. per week at 24 years. Give fullest  
particulars in first letter not later than August 6 to Grays  
Co-operative Society, Ltd., 68 High Street, Grays. Envelopes  
endorsed "Pharmacy."

**REQUIRED.**—A young energetic Qualified lady or gent. for  
S.W. district; also vacancy for Qualified Superintendent,  
would suit a retired person. Full particulars to 331/122, Office  
of this Paper.

**REQUIRED,** M.P.S. for usual duties; permanency; closed Sun-  
days; give usual references and state salary. Write or inter-  
view, The Bow Drug Stores, Ltd., 39 Devon's Road, E.3.

**UNQUALIFIED** Assistant (lady) wanted, holiday relief, Septem-  
ber 5-17 inclusive; must be reliable. 246/120, Office of this  
Paper.

**UNQUALIFIED** Junior Assistant required for branch at Ketter-  
ing; must have had good training and used to high-class  
business. Apply, stating age, salary required, references, and  
enclose photograph, P. Jeyes & Co., Ltd., The Drapery, North-  
ampton.

**WANTED,** Junior Assistant for holiday relief from August 29  
to October 1. Please give the usual particulars in first letter  
to E. Litchfield, South Farnborough, Hants.

**WANTED,** Unqualified help, Monday, Tuesday, Friday and  
Saturday evenings. Apply, Pasco, 57 Hackney Road, E.2.

**YOUNG** Qualified Assistant (Gentleman) required immediately,  
Counter and Dispensing. State age, experience, salary re-  
quired, references, etc., to W. B. Stather, Chemist, 34 Infirmary  
Road, Sheffield.

**YOUNG** Unqualified Assistant for first-class Dispensing and light  
retail business; good experience offered. Give full particu-  
lars and salary expected in first letter, Gilling, Pharmaceutical  
Chemist, Sunningdale.

### VACANCIES FOR LOCUMS

**LONDON, W.6.**—Required, Qualified Man as Locum, September 5  
to 17, both dates inclusive; no Sunday duty. Usual particu-  
lars, salary, etc., apply 245/7, Office of this Paper.

**LOCUM,** Qualified, for first week in August (excluding Monday);  
S.E. London. Age and wages required to 246/37, Office of  
this Paper.

**LOCUM,** Qualified, wanted; September 5-17 inclusive; must be  
reliable and well recommended. State salary. Reply,  
246/12, Office of this Paper.

**QUALIFIED** Locum Pharmacist wanted (Assistants kept) for  
N.H.I. and Counter; September 5-September 17 inclusive; lunch  
and tea provided. State terms to S. G. Farthing, 863 Old Kent  
Road, London, S.E.15.

**YOUNG** Qualified Gentleman required as Locum at branch city  
business, August 29-September 10 inclusive; no Sunday or  
half-holiday duty. Apply, giving usual particulars and salary re-  
quired, to Kirton & Son, 22 Paragon Square, Hull, Yorks.

### WHOLESALE

**D. MAWDSLEY & CO.,** 2-6 Riga Street, Manches-  
ter, 4, require energetic and capable Representa-  
tives for:—

1. Staffordshire.
2. West Riding of Yorkshire.

Applicants must have established connexion and a full  
knowledge of Chemists' Sundries. State age, experi-  
ence and salary required, etc., and address applica-  
tions to the Sundries Department.

**FOREMAN,** for Manufacturing Chemists, in North Midlands;  
experienced in Tablet-making, Ointments, Toilet Prepara-  
tions, etc. State age, previous situations, salary required, 331/113,  
Office of this Paper.

**HOSPITAL** Representatives for all parts Great Britain required  
by Manufacturing Chemists (London) to sell old-established  
recently improved product, much used in hospitals, nursing homes,  
etc.; good commission on agency basis. Write, in confidence, fullest  
details, stating products now carried, areas covered and period  
of connexion, etc., 331/114, Office of this Paper.



## ALL DRUG AND FINE CHEMICAL WORKERS SHOULD JOIN AT ONCE

### THE CHEMICAL WORKERS' UNION

Reg. T.U. No. 1696 - Founded 1912

**BENEFITS:** Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec.,  
149 Newington Causeway, London, S.E.1

**M**ANUFACTURER requires Representative for Scotland on small salary and exceptionally large commission; attractive Toilet goods and perfumery lines with strong sales appeal. Applicants must cover territory with car and carry stock. Write, giving full personal particulars, to 330/994, Office of this Paper.

**Q**UALIFIED Chemist wanted as Representative for Leeds area, to call on Hospitals, Doctors and Chemists; salary £4 per week and travelling expenses. Apply, 331/109, Office of this Paper.

**R**EPRESENTATIVES required in all districts by national company marketing medicated sweetmeats, pastilles and lozenges throughout the Drug trade; must be experienced, with connexion, in this type of product; salary, commission and expenses; our Staff is aware of this advertisement. 331/112, Office of this Paper.

**S**ALES Representatives required for the disposal of Veterinary lines to Farmers, etc. Apply, 331/110, Office of this Paper.

**T**RANSPORT AND DELIVERIES.—A vacancy occurs for a Manager to take charge of the Despatch Department of a well-known West End firm of Chemists; only one thoroughly experienced in controlling a staff and in the delivery of parcels need apply. Give full particulars, age, references, salary required and when disengaged. 331/117, Office of this Paper.

**T**RUFOOD, LTD., require Registered Pharmacists for Medical and Sales Propaganda (age not to exceed 35 years). Only applicants having real ability and personality will be considered; progressive positions for energetic and capable men. State in first instance, with photo (which will be returned) age, experience and salary expected to Managing Director, Trufood, Ltd., Bebbington, Wirral, Cheshire.

## COLONIAL, INDIAN AND FOREIGN

**C**ATGUT.—Required, practical man, fully Qualified, to plan and start Manufacture (abroad) of Catgut, both raw and sterilised; situation as Mill Manager eventually offered. 331/123, Office of this Paper.

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## SITUATIONS WANTED

### RETAIL (HOME)

**A**AVAILABLE August 29, Birmingham district, Pharmacist; 14 years' experience retail all departments; 5 years manager; desires change. 244/4, Office of this Paper.

**G**ENTLEMAN with West End experience is free to take part-time evenings or two half-days weekly in West End pharmacy. P.C.B. 289/25, Office of this Paper.

**M**ANAGER, disengaged, temporary or permanent; West End and Provincial experience; 35; Optics; excellent references. "W." 128 Cavendish Road, S.W.5.

**M**ANAGER, shortly disengaged, desires post of large responsibility with control of staff; high-class Pharmacy only entertained; Pharmacy, Photography, Optics. O.B.A.C., 246/16, Office of this Paper.

**P.H.C.** (lady); conscientious, reliable, not young; free; Counter and Dispensing; country or seaside preferred. 246/11, Office of this Paper.

**Q**UALIFIED Chemist desires position as Manager; excellent all-round experience; at present engaged as Manager. M.P.S. 22 Oswestry Road, Oxford.

**Q**UALIFIED Pharmacist (32), with excellent experience, seeks progressive position as Manager in good-class business, London or south-west England preferred. 246/26, Office of this Paper.

**R**HODESIAN (20), Part I, desires experience in English Pharmacy; disengaged August, September. Mansell, Albion Street, St. George's, Salop.

**S**ENIOR Pharmacist, London and West End experience, requires similar position, or executive or managerial, staff control. 246/23, Office of this Paper.

**U**NQUALIFIED Lady (21), experienced Dispenser; referred Part II (Chemistry); available at once until September or Christmas. Brookes, 127 Gipsy Hill, S.E.19. Phone GIP. 1833.

**U**NQUALIFIED (25), completed Part II Course, requires post, London or near. Beavan, 13 Grove Terrace, Deal.

## LOCUMS SEEKING ENGAGEMENTS

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**L**OCUM, disengaged September 1; retired M.P.S. Reply J. H. Smith, 19 Clarence Square, Cheltenham.

**L**OCUM (Male), Qualified; London or Home Counties; free now. Nelson, 11 Radipole Road, Fulham, S.W.6.

**L**OCUM, M.P.S. (40), excellent references; London only, now free. "G." 1 Clytha Court, Gipsy Road, Norwood, S.E.27.

**Q**UALIFIED (45), recently disposed of own business (16 years), requires Locum work during August; post as Superintendent or Manager, with view to permanency. Pharmacy, 62 St. Lawrence Avenue, Worthing.

## WHOLESALE

**A.1.**—WELL-KNOWN Representative, 16 years' London and country experience selling Proprietary, Toilet and Beauty Products; 2 years' sales management; excellent testimonials; desires progressive position. 237/2, Office of this Paper.

**I**RELAND.—Young Qualified Irish Chemist, University trained, wishes to represent English Firm or Medical Propaganda work; excellent knowledge Therapeutics, Sera, etc.; gentlemanly appearance; well connected with Chemists and Doctors. 233/4, Office of this Paper.

**P**HARMACIST (28), car owner; excellent ability, experience and education; seeks progressive position as Pharmaceutical or Medical Representative; disengaged. 245/1, Office of this Paper.

**Y**OUNG Representative urgently seeks salaried post, Sussex, London or South; used calling Chemists, Opticians and Medical propaganda; slight knowledge endocrinology; able to drive. Allan, 8 Park Hill Road, Croydon.

## COLONIAL, INDIAN AND FOREIGN

**Q**UALIFIED Pharmacist (25), single, British subject, speaks three languages; able Salesman and Manager; seeks employment in the British Colonies. Apply, with terms, to T. A. Atalla, P.O.B. 1119, Jerusalem.

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